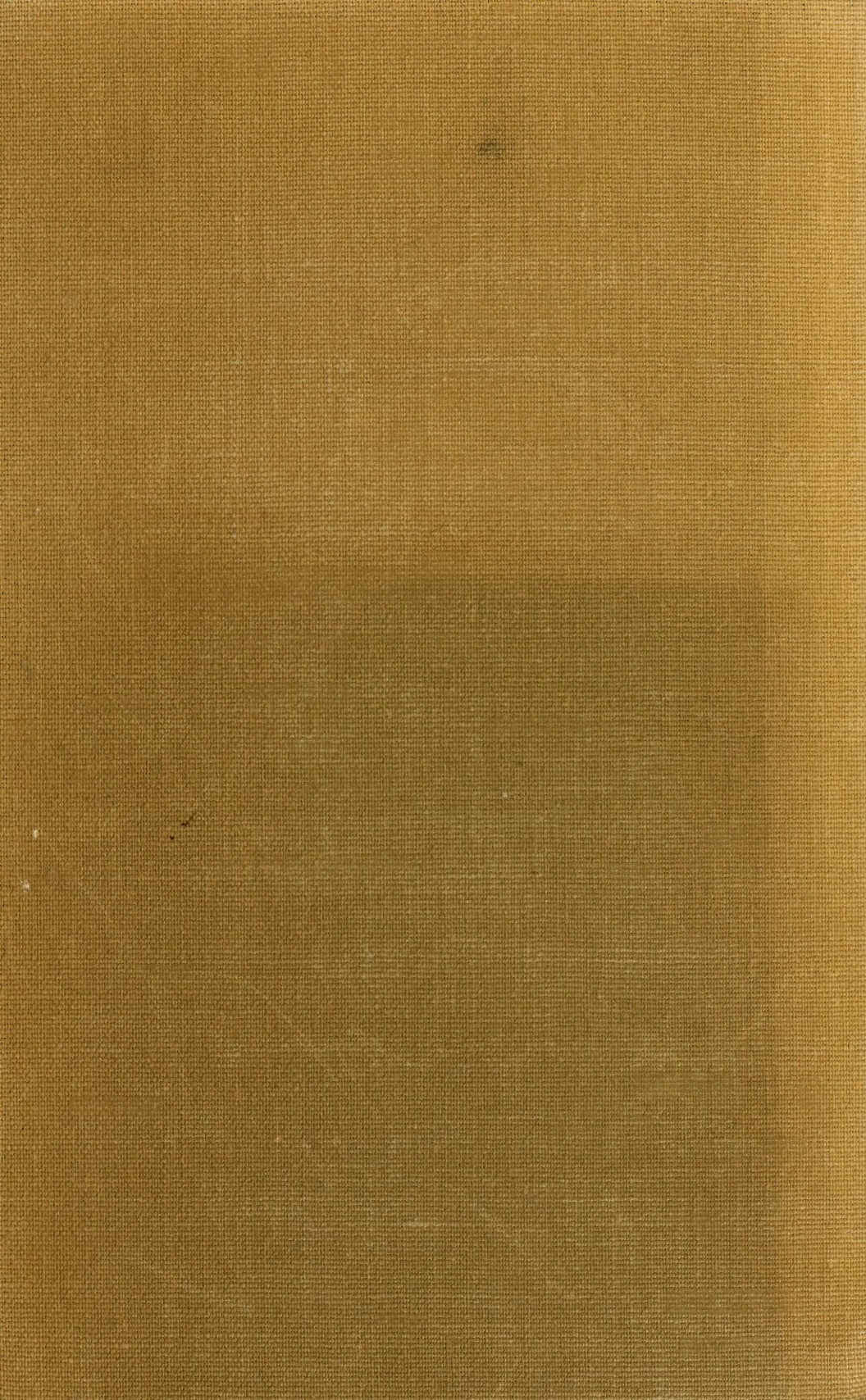




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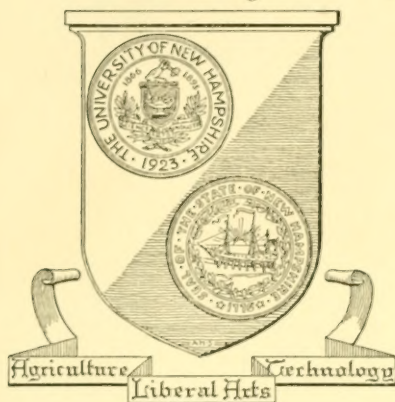
313 - 50th Ann. Rpt. - 1938

319 - 51st Ann. Rpt. - 1939

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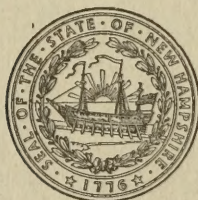
THE UNIVERSITY OF NEW HAMPSHIRE
AGRICULTURAL EXPERIMENT STATION

Department of Agricultural Chemistry

Inspection of Commercial Feeding Stuffs

—1939—

Made for the
State Department of Agriculture



By T. O. Smith and H. A. Davis

The University of New Hampshire

Durham, N. H.

UNIVERSITY OF NEW HAMPSHIRE
AGRICULTURAL EXPERIMENT STATION

INSPECTION OF COMMERCIAL FEEDING STUFFS

Made for the

STATE DEPARTMENT OF AGRICULTURE

The inspection of commercial feeding stuffs reported in this bulletin was made under the direction of Honorable Andrew L. Felker, Commissioner of Agriculture. Mr. E. D. Sanborn, State Inspector, collected samples of 485 brands of feeding stuffs which were offered for sale in the State during the year ending June, 1939. This is the largest number of samples analyzed during any inspection year to date. The 485 samples represent brands of 132 manufacturers.

REGISTRATION AND LABELING OF FEEDING STUFFS

Registration:—The New Hampshire law, entitled an Act to Regulate the Sale of Concentrated Commercial Feeding Stuffs, requires registration with the Commissioner of Agriculture of each brand offered for sale within the State and the payment of a license fee. This is usually done by the manufacturer or jobber whether he is located within or outside the State. Under the provisions of the law, however, if the manufacturer or jobber fails to make registration, the dealer is responsible. Feeds manufactured in other states frequently pass through several middlemen before they reach the local distributor. Dealers who purchase feed for resale must assure themselves the brands they purchase are properly registered and the license fee paid or assume that responsibility. The official charged with the administration of the law is the Commissioner of Agriculture. All matters relative to registration and all inquiries concerning the law should be addressed to the Commissioner of Agriculture, State House, Concord.

Labeling:—The law requires every manufacturer or dealer who shall sell or offer for sale any concentrated commercial feeding stuff to furnish with each package a clearly printed statement certifying the net weight of the feed contained in the package, the brand name or trademark under which the feed is sold, the name and address of the manufacturer, the ingredients of which the feed is composed, and a chemical analysis stating the minimum percentage only of protein, fat and carbohydrates, and the maximum percentage only of crude fiber. In order to secure greater uniformity in the labeling of feeds and in the statement of ingredients, the Association of American Feed Control Officials has adopted definitions and standards. The Association has also approved twenty-one general regulations which "should be adopted by state officials as far as the statutes will permit." There are no conflicts in these regulations with the New Hampshire feeding stuffs law. All manufacturers and dealers are, therefore, expected to conform to the regulations of the Association in all matters not specifically mentioned in the law.

One sentence in the New Hampshire feeding stuffs law reads as follows: "And shall state in bold type upon the container or a tag attached thereto, if a compounded feed, the names of the several ingredients therein contained." To avoid the misinterpretation or deception which may result from the manufacturer's using indefinite terms in listing the ingredients, the Association of American Feed Control Officials has adopted 157 official definitions of ingredients used in the compounding of feeding stuffs. These definitions are subject to frequent addition and revision. At the present time there are also 11 tentative definitions and 15 definitions that have been suggested for future discussion. Tentative definitions are those which have received favorable consideration, but have not yet been made official. The 135 definitions which had been adopted as official when the 1937 feeding stuffs bulletin was published, were included in that bulletin, pp. 7-23, with a view to assisting the manufacturers in listing the ingredients with accuracy and uniformity. A limited number of copies of the 1937 bulletin is still available for

free distribution. A 42-page booklet containing the 157 definitions which have now been made official, the 21 general regulations and other instructive material may be obtained from the Secretary of the Association of American Feed Control Officials, College Park, Maryland, at twenty-five cents per copy. The manufacturer should secure a copy of one of these booklets and list the ingredients accurately. Carelessness or indifference in listing the ingredients should create sales resistance in the buyer. The purchaser is warranted in concluding that the manufacturer who is inaccurate in naming the ingredients printed on the tag will be equally inaccurate in selecting the ingredients he puts into the bag.

PURPOSE OF THE FEEDING STUFFS LAW

The chief purpose of the feeding stuffs law is to protect the consumer against the inferior products which would doubtless soon appear on the market if the trade were not under state control. The law is primarily a correct-labeling act. It must not be assumed by the purchaser of feeding stuffs that every brand which meets the manufacturer's guarantee is a high-grade feed. The feeding stuffs law does not prevent the sale of a low-grade feed if it is properly licensed and tagged and is offered for sale in compliance with the law. It would not be in the public interest to legislate against the sale of the lower-grade by-products. They can be fed profitably if bought at a price adjusted to their feeding value. The law does prevent an inferior feed being offered for sale as a high-grade product.

The dealer in purchasing feed from the manufacturer and the consumer in purchasing feed from the dealer should both specify: The feed delivered on this order must comply with the New Hampshire feeding stuffs law. If the feed is not registered; if the protein, fat, carbohydrates and crude fiber are not guaranteed; and if the ingredients of which the feed is composed are not plainly stated on the bag, or a tag attached thereto, the purchaser is not protected by the state feeding stuffs law. He has no recourse under the feeding stuffs law

if the feed which he purchases is of inferior quality. The dealer who offers for sale a feeding stuff which has not been registered and which is not guaranteed in compliance with the law is probably indifferent to his customer's interests in other respects. He does not merit either the confidence or the patronage of the consumer. The purchaser's co-operation in refusing to buy a feed which does not conform to the law in every respect will not only help in the enforcement of the law but will at the same time afford the purchaser himself the protection of the law. If the buyer fails to assure himself that the legal requirements have been met, he accepts the feeding stuff at his own risk.

HOW DOES THE COST OF THE INSPECTION AFFECT THE PRICE PER TON

The cost of the feeding stuffs inspection includes the drawing and the analysis of the samples, and the publication of the annual bulletin. It is charged to the funds paid by the manufacturer in license fees. Since this cost is finally paid by the purchaser, he is interested in the effect of these costs on the retail price per ton. According to the latest available figures of the Bureau of the Census of the United States Department of Commerce, the cost of the commercial feeds consumed annually in the state is in excess of seven million dollars. A calculation based on this valuation and the known costs of the inspection shows the cost to the purchaser is less than four cents per ton of feed, a fraction of a cent per one hundred pound bag.

NUMBER OF SAMPLES FAILING TO COMPLY WITH THE LAW

One hundred ninety-two of the 485 brands analyzed failed to comply with the law in every respect, violating it on 248 counts. More than ninety per cent of the violations, however, are negligible if considered on the basis of the value of the feed to the purchaser.

Twenty-five brands, or 5.2 per cent, were below guarantee

in protein. Nine of these were below guarantee less than one-half per cent. Eight were below guarantee more than one-half per cent but less than one per cent. Eight were below guarantee more than one per cent.

Seventy-eight brands or 16.1 per cent were below guarantee in fat. Thirty-three of these were less than one-fourth per cent below guarantee. Forty-one were more than one-fourth per cent but less than one per cent below guarantee. Four were more than one per cent below guarantee.

Forty-two brands or 8.7 per cent contained an excessive amount of crude fiber. Sixty-six brands were below guarantee in carbohydrates. Thirty-seven samples failed to carry the carbohydrates guarantee. In the analysis of a feeding stuff, the percentage of carbohydrates is usually determined indirectly. It is found by subtracting the sum of the percentages of protein, fat, moisture and ash from 100. It is obvious that an excess of protein or fat over the manufacturer's guarantee decreases the percentage of carbohydrates found. Nearly all of this year's carbohydrates deficiencies are due to the protein or fat or both exceeding the guarantee.

Manganese was listed as an ingredient in 67 brands. In 40 brands the amount added was specified. Since different manganese compounds were added as a source of manganese and different forms of stating the amount of the manganese compound added were used, all were calculated to parts per million of the element manganese. The amount of manganese present in the 40 brands containing a specified amount was determined by analysis. The results of the analysis are shown in the list of ingredients. Only two of the 40 brands analyzed failed to contain as much manganese as was declared.

In the tabulation of the analytical figures, pp. 12 to 106 inclusive, those figures one-half per cent or more below guarantee in protein and one-fourth per cent or more below guarantee in fat are printed in bold-faced type.

Table I shows the percentage of samples failing to conform to the guarantee in each of the last fourteen years.

TABLE I

Year	Per cent below guarantee in Protein	Per cent 0.50 or more below guarantee in Protein	Per cent below guarantee in Fat	Per cent 0.25 or more below guarantee in Fat	Per cent high in Crude Fiber	Per cent low in Carbo- hydrates	Per cent with no Carbo- hydrates guarantee
1926	24.0	16.0	14.0	10.0	6.0	6.5	22.5
1927	24.7	16.4	19.4	13.6	5.9	17.9	14.4
1928	29.8	20.7	13.6	9.3	7.9	10.6	11.7
1929	29.7	20.2	12.1	9.3	6.5	10.8	9.5
1930	17.9	13.1	12.0	8.0	3.9	16.5	16.2
1931	9.0	7.2	15.6	9.7	5.3	15.6	11.2
1932	3.2	1.4	13.1	8.1	2.8	15.5	16.9
1933	4.9	3.6	17.3	9.8	3.6	18.1	5.9
1934	6.4	3.4	11.0	7.1	9.8	16.4	6.6
1935	5.4	3.0	12.7	8.5	9.9	10.8	5.4
1936	8.1	5.2	13.8	8.3	12.2	18.0	0.5
1937	7.0	4.2	9.0	6.0	11.0	21.7	0.0
1938	11.0	8.1	20.6	10.8	11.5	15.1	0.6
1939	5.2	3.3	16.1	9.3	8.7	13.6	7.6

REQUESTS FOR THE ANALYSIS OF FEEDING STUFFS BY INDIVIDUALS

Under the feeding stuffs law the Agricultural Experiment Station is charged only with the analysis of samples of feeding stuffs collected by the State Inspector under the direction of the Commissioner of Agriculture. It does, however, each year analyze a considerable number of samples drawn by individuals representing stock purchased by them for their own use. The object of the purchaser who asks to have the sample analyzed is usually to satisfy himself whether the feed meets its guarantee and if it does not, to obtain evidence upon which to base a claim for shortage.

The Station can assume no responsibility for the sampling of these unofficial samples but can attest only the accuracy of the analysis of the sample as submitted. It is practically impossible to secure a representative sample of a feeding stuff composed of several ingredients varying widely in composition without the aid of a sampling tube for drawing the sample and proper equipment for mixing it. A feed may contain as one of its ingredients gluten meal averaging 40 per cent protein, and as another ingredient oat feed averaging five per cent protein. These materials are so different in physical condition that the shaking in transit tends to separate them even though they may have been perfectly mixed by the manufacturer before bagging. It is apparent that an accurate sample of a ton of this feed can only be had by drawing a core from several bags. The official method requires ten. Since a representative sample is as essential as an accurate analysis in judging the value of a shipment of feed, it is evident that a satisfactory adjustment can seldom be effected on the basis of an unofficial sample.

Notwithstanding the objections which may be raised to the analysis of samples taken without proper sampling equipment, the Station is disposed to continue this work as long as there is evidence that it constitutes a useful service. The samples so submitted should be drawn from at least ten bags

in a manner which will insure that the small lot sent for analysis is as accurately representative as possible of the larger lot from which it is taken. Because of the cost of labor and materials, an analysis is not usually warranted on a sample drawn from less than a one ton lot of feed.

A one pound sample is sufficient for the analysis. It should be sent in a glass jar or tin box to prevent the loss of fine particles and a change in the moisture content. In order that the Department may have a satisfactory record of the sample analyzed and may know whether or not the manufacturer and the dealer are complying with the requirements of the law, the following information should be submitted concerning each sample.

Brand

Manufacturer

Address

Guarantee :

 Protein

 Fat

 Carbohydrates

 Moisture

 Ash

 Crude Fiber

Ingredients

.....

.....

Dealer

Address

Number of bags in lot

Number of bags sampled

Price per 100 pounds

Your name

Your address

Your reason for requesting analysis

.....

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	Crude Fiber	
Acme-Evans Co. Indianapolis, Ind.							
Acme Bran	G. 15.50 P. 16.24	3.75 4.57	56.00 62.62	6.39	10.18	10.00	Pure winter wheat bran.
Acme Feed	G. 16.50 P. 17.25	4.00 4.89	56.00 61.26	6.27	10.33	9.00	Wheat bran, wheat middlings not exceed- ing mill run of ground cleaned wheat screenings.
Acme Middlings with Screenings	G. 15.00 P. 15.59	4.00 4.31	57.00 64.82	5.69	9.59	9.50	Wheat middlings not exceeding mill run of ground cleaned wheat screenings.
Albers Bros. Milling Co. Seattle, Wash.							
Coif Middlings	G. 25.00 P. 28.89	4.00 4.12	53.00 51.07	7.21	8.71	5.00 3.25	Powdered skinhead mill, oat meal, ground corn, soluble meat extract, linseed oil meal, ground bulber barley, ground wheat, wheat brown short, dextrose, soybean oil meal, coconut oil meal, cod liver oil, oyster shell flour, 1% steamed bone meal, 1% iodized salt, 1% anise.
E. T. Allen Co. Atlanta, Ga.							
Empire 41% Cottonseed Meal Feeding Quality	G. 41.00 P. 41.72	5.50 7.40	38.00 37.08	7.34	6.46	13.00	Made from cottonseed only.
Allied Mills, Inc. Chicago, Ill.							
Brewers' Dried Grains	G. 24.00 P. 30.65	5.00 6.91	53.00 50.33	3.55	8.56	18.00	Brewers' dried grains.

Economy 20% Dairy Feed	G. 20.00 F. 22.15	3.50 3.91	51.00 56.59	 7.36	 9.99	11.00 8.69	Soybean oil meal, cotton seed meal, corn meal, corn distillers' dried grains, brewers' dried grains, corn gluten feed, ground oats, wheat bran, cane molasses, 2% ground limestone, 1% salt, 0.5% steamed bone meal, 0.03% iron oxide, 0.0005% potassium iodide.
Empire 20% Dairy Ration	G. 20.00 F. 23.73	3.00 3.70	52.00 55.04	 7.30	 10.23	12.00 8.33	Corn distillers' dried grains, brewers' dried grains, soybean oil meal, corn gluten feed, cottonseed meal, corn meal, wheat bran, 5% ground and bolted screenings from flax, wheat, corn, oats and barley, oat mill feed (oat hulls, oat shorts, oat middlings), cane molasses, 1% ground limestone, 1% salt.
Empire Egg Mash with Sardine Oil	G. 18.00 F. 19.04	3.50 4.52	53.00 58.87	 7.79	 9.78	8.00 6.84	Dried buttermilk, dried skim milk, meat scraps, fish meal, soybean oil meal, corn gluten meal, dehydrated alfalfa meal, wheat bran, wheat standard middlings, corn gluten feed, corn meal, fine ground oats, 1% ground limestone, 0.06% iron oxide, 0.0007% potassium iodide, 0.25% salt, sardine oil, 0.06% manganese sulfate equivalent to 147 p. p. m. of manganese. Found 250 p. p. m. Mn.
June Pasture	G. 10.00 F. 11.75	0.50 0.74	66.00 62.93	 9.73	 14.85	21.00 15.59	Choice alfalfa meal, beet molasses.

Pounds in 100 lbs. of Feeding Stuff

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuff					Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	
Red Feather Egg Mash	G. 18.00	3.50	53.00	...	...	Dried skim milk, meat scraps, fish meal, soybean oil meal, corn gluten meal, dehydrated alfalfa meal, wheat bran, wheat standard middlings, corn gluten feed, corn meal, fine ground oats, 2% ground limestone, 0.06% iron oxide, 0.0007% potassium iodide, 0.25% salt, fortified sardine oil containing 3000 vitamin A units and 400 vitamin D chick units per gram, 0.06% manganese sulphate equivalent to 147 p. p. m. of manganese. Found 186 p. p. m. Mn.
	F. 18.17	4.37	60.26	7.31	9.89	
Succatula 14% Dairy Feed	G. 16.50	3.00	57.00	...	...	Corn distillers' dried grains, brewers' dried grains, soybean oil meal, corn gluten feed, corn gluten meal, cottonseed oil meal, corn meal, wheat bran, 8% ground and bolted screenings from flax, wheat, corn, oats and barley, oat mill feed (oat hulls, oat shorts, oat middlings), cane molasses, 1% ground limestone, 1% salt.
	F. 20.14	4.05	57.73	8.16	9.92	
Succatula 24% Dairy Feed	G. 24.00	3.50	50.00	...	...	Corn distillers' dried grains, brewers' dried grains, soybean oil meal, corn gluten feed, cottonseed oil meal, corn meal, wheat bran, 5% ground and bolted screenings from flax, wheat, corn, oats and barley, oat mill feed (oat hulls, oat shorts, oat middlings), cane molasses, 1% ground limestone, 1% salt.
	F. 26.40	4.31	52.12	7.76	9.41	

Wayne Amco 20% Dairy Ration...	G.	20.00	4.00	54.00	...	...	9.00	Cottonseed meal, brewers' dried grains, corn distillers' dried grains, ground oats, corn gluten feed, corn meal, hominy meal, soybean oil meal, corn gluten meal, old process linseed oil meal, wheat bran, cane molasses, 0.5% steamed bone meal, 1.5% ground limestone, 1.0% salt, 0.03% iron oxide, 0.0005% potassium iodide.
	F.	22.42	4.20	57.21	6.73	9.44	8.77	
Wayne Amco 24% Dairy Ration ..	G.	24.00	4.00	49.00	...	...	9.00	Corn distillers' dried grains, corn gluten meal, brewers' dried grains, corn gluten feed, old process linseed oil meal, soybean oil meal, cotton-seed meal, ground oats, corn meal, hominy meal, wheat bran, cane molasses, 0.5% steamed bone meal, 1.5% ground limestone, 1.0% salt, 0.03% iron oxide, 0.0005% potassium iodide.
	F.	25.87	4.26	54.27	6.99	8.61	8.10	
Wayne Calf Meal	G.	24.00	4.00	52.00	...	...	7.00	Dried skim milk, cottonseed oil meal, corn gluten meal, coconut oil meal, wheat standard middlings, wheat bran, wheat red dog, soybean oil meal, 2% ground limestone, 1% steamed bone meal, 1% salt, 0.06% iron oxide, 0.0007% potassium iodide, cane molasses, sardine oil.
	F.	26.36	4.26	52.63	7.62	9.13	6.66	
Wayne Chick and Broiler Ration..	G.	18.00	3.50	53.00	...	...	8.00	Dried buttermilk, dried skim milk, animal liver meal, meat scraps, fish meal, ground yellow corn, corn gluten meal, fine ground oats, wheat standard middlings, wheat bran, soybean oil meal, dehydrated alfalfa meal, 1.5% ground limestone, 0.04% iron oxide, 0.0005% potassium iodide, 0.25% salt, sardine oil, 0.04% manganese sulphate equivalent to 98 p. p. m. manganese. Found 248 p. p. m. Mn.
	F.	19.87	4.33	57.18	8.09	10.53	5.72	

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuff					Mols- ture	Crude Fiber	Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash				
Wayne Chick Starter	G. 17.00	4.00	55.00	7.78		9.72	7.00	Dried buttermilk, dried skim milk, animal liver meal, meat scraps, fish meal, wheat standard middlings, corn meal, corn gluten meal, fine ground oats, dehydrated alfalfa meal, soybean oil meal, wheat bran, 1.5% ground limestone, 0.06% iron oxide, 0.0007% potassium iodide, 0.25% salt, sardine oil, 0.06% manganese sulphate equivalent to 147 p. p. m. of manganese. Found 204 p. p. m. Mn.
	F. 18.65	4.80	59.05				5.40	
Wayne Egg and Breeder Mash with Sardine Oil	G. 20.00	3.50	53.00	8.64		9.71	8.00	Dried buttermilk, dried skim milk, animal liver meal, meat scraps, fish meal, wheat standard middlings, wheat bran, corn meal, corn gluten meal, corn gluten feed, dehydrated alfalfa meal, soybean oil meal, fine ground oats, 2% ground limestone, 0.06% iron oxide, 0.0007% potassium iodide, 0.25% salt, sardine oil, 0.06% manganese sulphate equivalent to 147 p. p. m. of manganese. Found 190 p. p. m. Mn.
	F. 20.36	4.96	56.33				7.02	
Wayne Fitting Ration	G. 12.00	3.50	59.00	6.41		11.21	9.00	Corn distillers' dried grains, corn meal, hominy meal, soybean oil meal, crimped oats, old process linseed oil meal, wheat bran, brewers' dried grains, cane molasses, 0.5% steamed bone meal, 1.2% ground limestone, 1.2% salt, 0.03% iron oxide, 0.0005% potassium iodide, ground oats.
	F. 14.49	4.06	63.83				7.65	

3	Wayne Growing Mash with Sardine Oil	G.	16.00	3.50	55.00	....	7.46	....	7.00	Dried buttermilk, dried skim milk, animal liver meal, meat scraps, fish meal, wheat standard middlings, corn meal, corn gluten meal, fine ground oats, dehydrated alfalfa meal, soybean oil meal, wheat bran, 1.5% ground limestone, 0.06% iron oxide, 0.0007% potassium iodide, 0.25% salt, sardine oil, 0.06% manganese sulphate equivalent to 147 p. p. m. of manganese. Found 235 p. p. m. Mn.
		F.	17.12	4.95	60.69	....	7.46	9.78	5.95	
	Wayne Horse Feed	G.	9.50	3.00	58.00	....	2.10	....	8.00	Cracked corn, crimped oats, wheat bran, cane molasses.
		F.	9.63	3.16	74.24	....	2.10	10.87	4.79	
	Wayne Mash Concentrate with Sardine Oil	G.	32.00	3.50	33.00	....	15.14	....	8.00	Dried buttermilk, dried skim milk, animal liver meal, fish meal, meat scraps, soybean oil meal, corn gluten feed, corn gluten meal, dehydrated alfalfa meal, 4% ground limestone, 0.15% iron oxide, 0.002% potassium iodide, 0.5% salt, sardine oil, 0.15% manganese sulphate equivalent to 369 p. p. m. of manganese. Found 378 p. p. m. Mn.
		F.	37.69	5.74	33.87	....	15.14	7.56	6.78	
	Wayne 26% Mash Supplement	G.	26.00	3.50	43.00	....	14.67	....	10.00	Dried buttermilk, dried skim milk, animal liver meal, meat scraps, fish meal, wheat standard middlings, wheat bran, corn gluten meal, corn gluten feed, dehydrated alfalfa meal, soybean oil meal, 3% ground limestone, 0.15% iron oxide, 0.002% potassium iodide, 0.5% salt, sardine oil, 0.15% manganese sulphate equivalent to 369 p. p. m. of manganese. Found 276 p. p. m. Mn.
		F.	26.53	4.80	44.92	....	14.67	9.08	7.62	

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuff						Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	Crude Fiber	
Wayne Pork Maker	G. 14.00	3.50	57.00	...	...	7.00	Digester tankage, fish meal, soybean oil meal, fine ground oats, corn meal, wheat standard middlings, fine ground alfalfa meal, cane molasses, 1% ground limestone, 0.5% steamed bone meal, 0.02% iron oxide, 0.0005% potassium iodide, 0.0005% copper sulphate, 1% salt.
	F. 14.94	4.14	63.99	5.64	11.39	5.95	
Wayne Poultry Fattener	G. 13.50	3.50	63.00	...	...	8.00	Ground yellow corn, corn germ oil meal, white hominy feed, rolled oats, fine ground oats, wheat standard middlings, wheat red dog, old process linseed oil meal, 1% salt.
	F. 15.11	6.13	65.39	3.43	9.94	6.19	
Wayne Turkey Growing Mash with Sardine Oil	G. 20.00	3.50	53.00	...	...	8.00	Dried buttermilk, dried skim milk, animal liver meal, meat scraps, fish meal, wheat standard middlings, corn meal, fine ground oats, dehydrated alfalfa meal, soybean oil meal, corn gluten meal, wheat bran, 2% ground limestone, 0.06% iron oxide, 0.0007% potassium iodide, 0.25% salt, sardine oil, 0.06% manganese sulphate equivalent to 147 p. p. m. of manganese. Found 212 p. p. m. Mn.
	F. 22.20	5.12	53.66	9.67	9.35	6.44	
American Maize Products Co. Roby, Ind. Animal Sweetened Gluten Feed...	G. 20.00	1.00	62.00	...	...	7.00	Corn gluten feed, corn sugar molasses.
	F. 25.13	3.26	56.95	6.19	8.47	....	
Archer-Daniels-Midland Co. Minneapolis, Minn. Archer Brand 41% Protein Old Pro- cess Soybean Oil Meal	G. 41.00	4.00	36.00	...	...	7.00	Soybean oil cake.
	F. 45.61	4.01	34.92	5.98	9.48	....	

Old Process Linseed Meal	G. 37.00 F. 36.46	4.50 5.15	41.00 43.09	5.90	9.40	9.00	Ground linseed cake.
Ashcraft-Wilkinson Co. Atlanta, Ga.							
Cow-Eta Brand 41% Cottonseed Meal Prime Quality	G. 41.00 F. 41.15	5.00 6.53	38.00 37.95	 6.65	 7.72	13.00	
Atkinson Milling Co. Minneapolis, Minn.							
Atkinson's Wheat Bran	G. 14.00 F. 13.21	4.00 3.94	 61.27	 6.30	 10.28	12.00	With ground screenings not exceeding mill run.
Atkinson's Wheat Standard Mid- dlings	G. 15.00 F. 14.22	4.00 4.76	 60.41	 5.46	 10.15	9.50	With ground screenings not exceeding mill run.
E. W. Bailey & Co. Montpelier, Vt.							
Bailey's B-20	G. 20.00 F. 21.62	4.75 4.19	58.00 57.62	 7.98	 8.59	11.00 12.67	Corn gluten feed, wheat standard mid- dlings, soybean oil meal, cottonseed meal, wheat bran, white hominy feed, yellow corn meal, dried brewers' grains, oat meal mill by-products (oat middlings, oat hulls, oat shorts), cane molasses, edible steamed bone meal, calcium carbonate, salt.
Bailey's 20 Special	G. 20.00 F. 21.67	3.50 3.55	55.00 57.17	 9.20	 8.41	9.00 8.56	Gluten feed, standard wheat middlings, oat meal mill by-products (oat middlings, oat hulls, oat shorts), corn meal, wheat bran, cottonseed meal, molasses, salt, edible bone meal, calcium carbonate, soy- bean meal.
Bailey's 16% Dairy Ration	G. 16.00 F. 17.20	5.00 4.71	60.00 61.30	 7.22	 9.57	9.00 7.42	Corn gluten feed, linseed oil meal, hominy feed, cottonseed meal, ground oats, wheat bran, edible bone meal, calcium carbon- ate, salt.

Pounds in 100 lbs. of Feeding Stuff

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuff					Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	Crude Fiber
Bailey's Pitting Ration Sweetened	G. 14.00	4.00	62.00	...	...	Corn meal, hominy feed, ground oats, bran, linseed meal, molasses, edible bone meal, fine salt, calcium carbonate, cod liver oil, soybean meal.
	F. 17.12	4.63	61.59	6.99	9.67	
Bailey's Pennant Brand Complete Layer	G. 15.50	4.00	60.00	...	...	Coarse ground wheat, coarse yellow corn meal, whole oat groats, ground oats, alfalfa leaf meal, soybean oil meal, meat scraps, dried skim milk, wheat standard middlings, wheat bran, charcoal, salt, calcium carbonate, edible steamed bone meal, fortified cod liver oil, manganese sulphate.
	F. 16.39	4.34	59.68	8.54	10.45	
Capital Dairy Ration Sweetened ...	G. 24.00	4.50	55.00	...	...	Corn gluten feed, linseed oil meal, hominy feed, cottonseed meal, ground oats, wheat bran, corn meal, soybean meal, edible bone meal, calcium carbonate, fine salt, molasses.
	F. 24.87	4.50	53.39	8.00	9.33	
Capital Wheat Mixed Feed	G. 14.00	3.00	60.00	...	...	Wheat bran, second clear flour.
	F. 17.07	4.11	64.50	4.54	9.78	
Fayerlye Dairy Ration Sweetened ...	G. 20.00	4.00	55.00	...	...	White hominy feed, cottonseed meal, linseed oil meal, corn meal, ground oats, wheat bran, soybean meal, corn gluten feed, standard wheat middlings, edible bone meal, calcium carbonate, fine salt, molasses.
	F. 21.80	4.22	56.90	7.84	9.24	

Pennant Brand Chick Starter	G.	17.00	5.00	50.00	....	....	5.00	Wheat bran, yellow corn meal, wheat red dog flour, ground oat groats, dried skim milk, meat scraps, pulverized charcoal, edible bone meal, alfalfa leaf meal, fine salt, calcium carbonate, honey locust bean meal, anise seed, crushed flaxseed, dried albumen of milk, cod fish meal, selected blood flour, cocoa, fenugreek seed, potassium iodide, rice polish, soybean oil cake meal, linseed oil meal, cocoanut oil cake meal, cod liver meal, concentrated cod liver oil.
	F.	16.11	3.81	61.64	8.34	10.10	6.06	
Pennant Brand Laying Mash	G.	20.00	5.00	50.00	....	....	6.00	Ground oat groats, dried skim milk, fortified cod liver oil, wheat red dog flour, yellow corn meal, pulverized oats, meat scraps, wheat bran, wheat standard middlings, corn gluten feed, alfalfa leaf meal, salt, calcium carbonate, charcoal, honey locust bean meal, anise seed, crushed flaxseed, dried albumen of milk, cod fish meal, selected blood flour, cocoa, fenugreek seed, potassium iodide, rice polish, soybean oil cake meal, linseed oil meal, cocoanut oil cake meal.
	F.	20.79	4.80	53.84	11.56	9.01	7.77	
Pennant Brand Stock Feed	G.	9.50	4.00	70.00	....	....	9.50	Fine white hominy, oat meal mill by-products (oat middlings, oat hulls, oat shorts), ground oats, linseed oil meal, ground barley, 1/2% salt, cane molasses, calcium carbonate, bone meal.
	F.	9.93	4.99	69.44	6.28	9.36	8.84	
Pennant Pig Feed	G.	17.50	4.50	59.00	....	....	6.50	Corn gluten feed, soybean meal, yellow corn meal, wheat standard middlings, wheat red dog, ground barley, ground oats, linseed oil meal, alfalfa leaf meal, meat scraps, cane molasses, calcium carbonate, salt, edible bone meal, fortified cod liver oil.
	F.	18.78	4.38	58.70	7.58	10.56	6.39	

Pounds in 100 lbs. of Feeding Stuffs

Brand and Manufacturer	Protein	Fat	Carbo- hydrates	Ash	Mols- ture	Crude Fiber	Certified by manufacturer to contain
Baltimore Pure Rye Distilling Co. Dundalk, Md. Testillers' Sorted Grains	G. 16.00 F. 17.64	5.00 6.61	71.27	1.67	2.81	20.00	Choice rye, barley, malt and rye malt.
G. N. Bartemus Co. Concord, N. H. Barco All Purpose Mash	G. 18.00 F. 17.37	4.00 1.03	51.00 60.42	7.33	10.85	6.80 5.59	Ground oats, coarse ground wheat, coarse ground corn meal, wheat bran, soybean meal, whole oat groats, alfalfa leaf meal, 45% meat scraps, 55% fish meal, dried skimmed milk, calcium carbonate, bone meal, salt, Nopco XX.
Barco Breeder Mash	G. 20.00 F. 20.18	4.00 4.00	52.00 57.83	8.71	9.28	6.00 6.40	Corn meal, wheat bran, wheat red dog flour, ground oats, dehydrated alfalfa leaf meal, soybean oil meal, dried skimmed milk, 50% meat scraps, ground limestone, salt, manganese sulphate, Nopco XX oil.
Barco Broiler Mash	G. 18.00 F. 19.17	4.00 4.48	50.00 56.12	9.81	10.42	5.00 5.28	Corn meal, wheat standard middlings, wheat red dog flour, wheat bran, ground oats, dried skimmed milk, dried albumen of milk, 50% meat scraps, fish meal, dehydrated alfalfa leaf meal, Nopco XX oil, salt, calcium carbonate, bone meal, blood flour, soybean oil meal, honey locust bean meal, crushed flaxseed, rice polish, potassium iodide, manganese sulphate, wheat germ oil.

Barco Chick Starter	G. 17.00 F. 15.88	4.50 3.79	50.00 61.42	... 8.78	... 10.13	6.00 6.67	Dried skim milk, dried albumen of milk, feeding oat meal, pulverized oats, meat scraps, fish meal, blood flour, soybean oil meal, wheat red dog flour, wheat standard middlings, wheat bran, yellow corn meal, alfalfa meal, honey locust bean meal, crushed flaxseed, rice polish, salt, calcium carbonate, bone meal, charcoal, potassium iodide, manganese sulphate, fortified cod liver oil, wheat germ oil.
Barco 20% Dairy	G. 20.00 F. 21.67	4.00 3.45	55.00 57.01	... 7.39	... 10.48	7.50 5.61	White hominy feed, cottonseed meal, linseed oil meal, corn meal, ground oats, wheat bran, soybean meal, corn gluten feed, standard wheat middlings, edible bone meal, calcium carbonate, fine salt, molasses.
Barco 24% Dairy	G. 24.00 F. 25.13	4.50 3.74	55.00 53.76	... 7.74	... 9.63	9.00 6.46	Corn gluten feed, linseed oil meal, hominy feed, cottonseed meal, ground oats, wheat bran, corn meal, soybean meal, edible bone meal, calcium carbonate, fine salt, molasses.
Barco Growing	G. 15.00 F. 16.20	4.50 4.19	50.00 60.14	... 8.70	... 10.77	6.00 6.23	Dried skim milk, dried albumen of milk, feeding oat meal, pulverized oats, meat scraps, fish meal, blood flour, soybean meal, wheat red dog flour, wheat standard middlings, wheat bran, yellow corn meal, salt, alfalfa meal, honey locust bean meal, crushed flaxseed, rice polish, calcium carbonate, bone meal, charcoal, potassium iodide, manganese sulphate, fortified cod liver oil, wheat germ oil.

Pounds in 100 lbs. of Feeding Stuffs

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuffs					Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	Crude Fiber
Barco Laying Mash	G. 20.40	4.50	50.00	...	...	Dried skim milk, dried albumen of milk, feeding oat meal, pulverized oats, meat scraps, fish meal, blood flour, soybean oil meal, wheat red dog flour, wheat stand-ard middlings, wheat bran, yellow corn meal, corn gluten feed, alfalfa meal, honey locust bean meal, crushed flaxseed, rice polish, salt, calcium carbonate, bone meal, charcoal, potassium iodide, man-ganese sulphate, fortified cod liver oil, wheat germ oil.
	F. 20.53	4.12	53.52	11.92	9.91	
Dry Cow and Freshening Ration ..	G. 15.00	4.00	53.00	...	...	Wheat bran, soybean oil meal, corn gluten meal, crimped oats, dried beet pulp, coarse ground corn meal, alfalfa meal, wheat brown shorts, molasses, ground limestone, salt, fortified cod liver oil.
	F. 15.80	3.54	64.55	5.51	10.60	
Hillsboro 20% Dairy Ration Sweet-ened	G. 20.00	4.50	55.00	...	...	Corn meal, distillers' corn dried grains, wheat bran, ground oats, 41% cottonseed meal, corn gluten feed, linseed meal, lime, salt, bone meal, molasses.
	F. 20.22	3.73	58.29	7.05	10.71	
Hoyt's Laying Mash	G. 17.80	4.50	57.00	...	...	Corn meal, wheat bran, wheat red dog, ground oats, fish meal, 50% meat scraps, dehydrated alfalfa leaf meal, dried skimmed milk, charcoal, linseed meal, oyster shell meal, salt, cod liver oil, soy-bean meal, lime.
	F. 18.17	4.63	58.10	9.50	9.60	

4	Rollins' 20% Dairy	G. F.	20.00 21.54	4.00 4.18	45.00 56.86	 7.90	 9.52	9.00 7.17	Corn gluten feed, wheat bran, cottonseed meal, wheat flour middlings, hominy, brewers' grains, linseed meal, molasses, lime, bone meal, salt.
	Beacon Milling Co. Cayuga, N. Y. Auburn Dairy Feed	G. F.	20.00 20.84	4.00 3.89	50.00 58.31	 7.40	 9.56	10.00 7.79	Corn gluten feed, old process linseed oil meal, soybean oil meal, ground oats, corn meal, ground grain screenings from wheat, corn, oats, barley and buckwheat, cottonseed meal, wheat bran, ground barley, corn distillers' dried grains, molasses, 1% salt, 1% calcium carbonate.
	Beacon Battery Broiler Feed	G. F.	17.00 18.39	4.00 5.15	52.00 58.54	 8.95	 8.97	6.00 5.25	Dried skim milk, liver meal, meat scrap, fish meal, ground yellow corn, pulverized heavy oats, pulverized heavy barley, wheat bran, wheat red dog, dehydrated alfalfa leaf meal, fortified cod liver oil, 2% calcium carbonate, 1 1/2% salt, anhydrous manganese sulphate 35 p. p. m. equivalent to 12 p. p. m. of manganese. Found 105 p. p. m. Mn.
	Beacon Breeders' Mash with Buttermilk	G. F.	20.00 19.79	4.00 5.74	50.00 56.64	 9.95	 7.88	7.50 6.77	Dried skim milk, dried buttermilk, liver meal, meat scrap, fish meal, dehydrated alfalfa leaf meal, corn meal, pulverized heavy oats, pulverized heavy barley, wheat bran, wheat flour middlings, fortified cod liver oil, 1 1/2% fine salt, 3% calcium carbonate, 1% protozyme, 70 p. p. m. anhydrous manganese sulphate equivalent to 25 p. p. m. of manganese. Found 92 p. p. m. Mn.

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuff					Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mols- ture	Crude Fiber
Beacon Broiler Feed	G. 18.50	4.00	50.00	7.30	8.91	7.00
	F. 20.22	5.27	58.30			5.44
Beacon Complete Starting Ration ..	G. 17.50	4.00	50.00	8.19	8.69	6.00
	F. 18.61	5.40	59.11			6.00
Beacon 22 Egg Mash	G. 22.00	4.50	48.00	11.23	7.98	7.50
	F. 22.51	6.04	52.24			5.55

Dried skim milk, liver meal, meat scrap, fish meal, ground yellow corn, pulverized heavy oats, wheat bran, wheat red dog, wheat germ meal, soyabean oil meal, corn gluten meal, dehydrated alfalfa leaf meal, fortified cod liver oil, 2½% calcium carbonate, ½% salt, 35 p. p. m. anhydrous manganese sulphate equivalent to 12 p. p. m. of manganese. Found 64 p. p. m. Mn.

Dried skim milk, liver meal, meat scrap, fish meal, ground yellow corn, ground hulled oats, pulverized heavy oats, pulverized heavy barley, wheat bran, wheat flour middlings, dehydrated alfalfa leaf meal, fortified cod liver oil, 2% calcium carbonate, ½% salt, 35 p. p. m. anhydrous manganese sulphate equivalent to 12 p. p. m. of manganese. Found 80 p. p. m. Mn.

Dried buttermilk, dried skim milk, liver meal, meat scrap, fish meal, pulverized heavy oats, pulverized heavy barley, corn meal, dehydrated alfalfa leaf meal, wheat bran, wheat flour middlings, fortified cod liver oil, 3% calcium carbonate, ½% fine salt, 1% protozyme, 70 p. p. m. anhydrous manganese sulphate equivalent to 25 p. p. m. of manganese. Found 102 p. p. m. Mn.

Beacon Fitting Ration	G. F.	14.00 15.33	4.00 4.27	58.00 63.94	 6.78	 9.68	8.00 7.03	Crushed oats, ground barley, old process linseed oil meal, hominy feed, corn meal, wheat bran, wheat middlings, molasses, 2% calcium carbonate, 1% salt.
Beacon 16 Growing Mash	G. F.	16.00 17.12	4.00 5.79	50.00 58.88	 9.64	 8.57	7.50 7.47	Dried skim milk, liver meal, fish meal, meat scrap, pulverized heavy oats, corn meal, pulverized heavy barley, wheat bran, wheat flour middlings, dehydrated alfalfa leaf meal, fortified cod liver oil, 2% calcium carbonate, 1/2% salt, 70 p. p. m. anhydrous manganese sulphate equivalent to 25 p. p. m. of manganese. Found 121 p. p. m. Mn.
Beacon 18 Growing Mash	G. F.	18.00 18.43	4.00 5.46	50.00 56.83	 10.72	 8.56	7.50 7.19	Dried skim milk, liver meal, meat scrap, fish meal, pulverized heavy oats, pulverized heavy barley, corn meal, wheat red dog, dehydrated alfalfa leaf meal, wheat bran, wheat flour middlings, fortified cod liver oil, 2% calcium carbonate, 1/2% salt, 70 p. p. m. anhydrous manganese sulphate equivalent to 25 p. p. m. of manganese. Found 100 p. p. m. Mn.
Beacon 20 Laying Mash with Buttermilk	G. F.	20.00 21.41	4.00 6.15	50.00 53.36	 11.10	 7.98	7.50 6.55	Dried buttermilk, dried skim milk, liver meal, fish meal, meat scrap, corn meal, dehydrated alfalfa leaf meal, wheat bran, wheat flour middlings, pulverized heavy barley, pulverized heavy oats, fortified cod liver oil, 3% calcium carbonate, 1/2% salt, 70 p. p. m. anhydrous manganese sulphate equivalent to 25 p. p. m. of manganese. Found 106 p. p. m. Mn.

Pounds in 100 lbs. of Feeding Stuff

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuff					Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mols- ture	Crude Fiber
Beacon Sweet 20	G. 20.00	4.00	50.00	...	...	9.00
	P. 21.84	4.98	58.01	6.87	9.20	7.42
Beacon Sweet 24	G. 24.00	4.00	50.00	...	...	...
	P. 25.52	4.29	54.01	7.39	8.79	7.39
Beacon Test Cow Ration	G. 18.00	4.75	55.00	...	...	9.00
	P. 19.87	4.90	59.27	6.66	9.30	7.47
Beacon Turkey Fitting Ration	G. 10.00	3.00	60.00	...	...	9.00
	P. 11.77	3.19	72.33	3.17	9.54	6.03
L. Clayton Berry Lebanon, N. H. Berry's Special Dairy Ration	G. 20.00	4.00	50.00	...	...	12.00
	P. 22.59	3.76	56.22	7.21	10.22	10.16

Old process linseed oil meal, soybean oil meal, corn distillers' dried grains, cottonseed meal, wheat bran, wheat middlings, corn gluten meal, corn gluten feed, ground barley, corn meal, ground oats, molasses, 1% calcium carbonate, 1% salt.

Old process linseed oil meal, soybean oil meal, corn gluten meal, cottonseed meal, corn gluten feed, corn meal, corn distillers' dried grains, wheat bran, wheat middlings, ground oats, ground barley, molasses, 1% salt, 2% calcium carbonate.

Old process linseed oil meal, cottonseed meal, corn distillers' dried grains, soybean oil meal, corn gluten feed, corn meal, wheat bran, crushed oats, crushed barley, molasses, 1% salt, 1% calcium carbonate.

Old process linseed oil meal, soybean oil meal, corn gluten meal, alfalfa meal, crushed barley, cracked corn, crimped oats, molasses, 1% salt.

Corn meal or hominy feed, gluten feed, 41% cottonseed meal, wheat bran, brewers' grains, corn distillers' grains, ground oats, linseed oil meal, calcium carbonate, fine salt, molasses, soybean meal.

K & M Brand 32% Protein Old Process Linseed Meal	G.	32.00	5.00	40.00	....	....	10.00	Commercial flaxseed.
	F.	33.63	6.18	45.12	5.80	9.27	....	
Blatchford Calf Meal Co. Waukegan, Ill.	G.	31.00	5.00	40.00	....	....	5.00	Locust bean meal, dried milk albumen,
	F.	31.26	3.79	45.23	10.53	9.19	5.21	fish meal, anise seed, rice polish, blood flour, cocoa, fenugreek seed, potassium iodide, concentrated cod liver oil, red dog flour, standard wheat middlings, lin- seed oil meal, soybean oil meal, coconut oil meal, calcium phosphate (bone meal), salt, manganese sulphate, wheat germ oil.
Borden Co. New York, N. Y.	G.	22.00	0.50	48.75	....	....	3.75	Whey, soybean meal, lactoflavin concen-
	F.	23.30	1.63	57.38	9.79	5.90	2.46	trate.
Cairo Meal & Cake Co. Cairo, Ill.	G.	41.00	6.00	26.00	....	....	10.00	
	F.	39.43	6.69	40.57	6.74	6.57	....	
Miss Cairo, Brand 41% Cottonseed Meal	G.	16.00	4.50	....	....	....	8.50	With ground screenings not exceeding
	F.	16.15	4.24	65.30	3.66	10.65	....	mill run.
Capital Flour Mills St. Paul, Minn.	G.	41.00	4.50	35.00	....	....	7.00	
	F.	42.55	5.43	35.92	6.08	10.02	....	
Central Soya Co. Decatur, Ind.	G.	41.00	4.50	35.00	....	....	7.00	
	F.	42.55	5.43	35.92	6.08	10.02	....	

Corenco 55% Meat and Bone Scrap	G. 55.00 F. 56.74	6.00 8.14	..... .....	..... 25.57	 6.91	..... .....	Cooked meat and bone.
Continental Distilling Corp. Philadelphia, Pa. Corn Distillers' Dried Grains	G. 28.00 F. 30.56	7.00 11.73	45.00 51.54	 1.32	 4.85	15.00	Corn distillers' dried grains.
Copeland Flour Mills Midland, Canada Copeland's Dandy Bran	G. 17.00 F. 17.00	3.50 4.94	51.00 62.07	 5.40	 10.59	11.50	
Copeland's Dandy Shorts	G. 18.00 F. 18.95	5.00 5.61	54.00 60.75	 4.12	 10.57	8.00	
Corn Products Refining Co. New York, N. Y. Buffalo Corn Gluten Feed Sweet- ened	G. 20.00 F. 21.89	1.00 1.81	50.00 63.35	 5.14	 7.81	7.00	Corn gluten feed, feeding corn sugar molasses.
Cumberland Rendering Co. Portland, Me. Cumberland Brand Meat Scrap	G. 40.00 F. 40.89	8.00 8.97	..... .....	..... 45.10	 4.69	..... .....	
G. B. Currier Co. Colebrook, N. H. Champion Dairy Ration	G. 24.00 F. 25.83	4.75 4.96	50.00 53.27	 7.34	 8.60	8.50 8.50	Bran, choice cottonseed meal, buffalo gluten feed, diamond gluten meal, linseed oil meal, fancy ground oats, corn meal or hominy, brewers' dried grains, distillers' grains, middlings, 3/4% salt, bone meal.

Pounds in 100 lbs. of Feeding Stuff

Brand and Manufacturer	Protein	Fat	Carbo- hydrates	Ash	Mols- ture	Crude Fiber	Certified by manufacturer to contain
A. O. Dailey & Sons Binghamton, N. Y. Dailey's Open Formula 20 Quality Soybean Meal	G. 20.00 P. 21.36	4.00 3.30	57.44	7.78	10.12	10.00 9.18	150 lbs. soybean oil meal, 250 lbs. corn distillers' grains, 100 lbs. brewers' malt grains, 175 lbs. cottonseed meal, 150 lbs. linseed oil meal, 200 lbs. corn gluten feed, 300 lbs. hominy feed, 150 lbs. ground oats, 200 lbs. wheat bran, 100 lbs. wheat middlings, 175 lbs. molasses, 10 lbs. bone meal, 20 lbs. salt, 20 lbs. calcium carbonate.
Dairymen's League Cooperative Association Utica, N. Y. Dairytea Dried Skim Milk	G. 22.00 P. 23.36	6.50 6.09	53.61	8.01	4.93	.....	
Delaware Mills Deposit, N. Y. Delaware All Mash Chick Starter...	G. 17.00 P. 18.56	4.00 4.37	60.00 58.79	8.12	9.86	6.00 5.63	Cod liver oil, dried skim milk, meat scrap, fish meal, wheat red dog, dehydrated alfalfa leaf meal, corn meal, wheat bran, wheat middlings, oat meal, bone meal, calcium carbonate, charcoal, salt, potassium iodide, manganese.
Delaware Mills Bresler, Mich.	G. 20.00 P. 20.44	4.00 5.25	50.00 56.15	9.58	8.60	7.50 6.15	Cod liver oil, dried skim milk, dehydrated alfalfa leaf meal, meat scrap, fish meal, soybean oil meal, corn meal, wheat bran, wheat middlings, wheat red dog, oat meal, pulverized heavy oats, ground bone meal, phosphate calcium carbonate, 25% salt.

5	Delaware Fitting Ration	G.	13.00	4.00	60.00	...	...	10.00	Molasses, wheat bran, wheat middlings, corn meal, ground oats, linseed oil meal, soybean oil meal, peanut oil meal, phosphatic calcium carbonate, salt.
		F.	13.79	3.93	65.54	5.94	10.80	7.62	
	Delaware Growing Mash	G.	17.00	5.00	55.00	...	...	6.50	Cod liver oil, dried skim milk, dehydrated alfalfa leaf meal, meat scrap, fish meal, bone meal, soybean oil meal, corn gluten feed, pulverized heavy oats, corn meal, wheat bran, wheat middlings, wheat flour middlings, oat meal, phosphatic calcium carbonate, $\frac{1}{2}$ % salt.
		F.	18.60	5.00	55.57	11.23	9.60	6.58	
	Delaware Laying Mash	G.	20.00	5.00	50.00	...	...	7.00	Cod liver oil, dried skim milk, meat scrap, bone meal, fish meal, soybean oil meal, corn gluten feed, corn meal, wheat bran, wheat middlings, wheat red dog, pulverized heavy oats, oat meal, ground barley, dehydrated alfalfa leaf meal, phosphatic calcium carbonate, $\frac{1}{2}$ % salt.
		F.	20.14	4.86	57.43	9.03	8.54	6.74	
	Delaware Pulchlass Feed	G.	10.00	2.00	67.00	...	...	16.00	Molasses, brewers' dried grains, wheat bran, dried beet pulp, alfalfa meal, oat middlings, oat hulls, oat shorts, ground grain screenings from wheat, corn meal, salt.
		F.	13.40	2.88	66.37	7.27	9.48	16.00	
	Delaware Starter-Grower-Layer...	G.	16.00	4.00	60.00	...	...	6.00	Cod liver oil, dried skim milk, meat scrap, fish meal, bone meal, corn meal, wheat bran, wheat middlings, wheat red dog, dehydrated alfalfa leaf meal, pulverized heavy oats, soybean oil meal, calcium carbonate, salt, potassium iodide, manganese.
		F.	17.16	4.71	59.07	9.18	9.88	6.46	

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuff						Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mols- ture	Crude Fiber	
Delaware Sweet 20% Dairy Feed	G. 20.00	4.50	50.00	...	...	10.00	Cane molasses, linseed oil meal, corn gluten feed, corn gluten meal, cottonseed meal, soybean oil meal, corn distillers' grains, peanut oil meal, wheat bran, wheat middlings, hominy feed, ground oats, ground barley, phosphatic calcium carbonate, salt.
	P. 21.64	4.29	56.56	8.42	9.09	8.81	
Delaware Sweet 24% Dairy Feed	G. 24.00	4.50	50.00	...	...	9.00	Cane molasses, corn gluten feed, corn gluten meal, linseed oil meal, cottonseed meal, soybean oil meal, corn distillers' grains, hominy feed, peanut oil meal, corn meal, wheat bran, wheat middlings, salt, phosphatic calcium carbonate.
	P. 24.95	4.04	54.27	6.82	9.32	7.01	
Delaware White Stock Feed.....	G. 9.00	3.00	65.00	...	...	12.00	Corn meal, hominy feed, wheat middlings, ground barley, oat middlings, oat hulls, oat shorts, salt, calcium phosphate, calcium carbonate.
	P. 12.82	4.29	69.39	5.38	8.12	13.20	
Delco Lacing Mash	G. 17.00	4.00	50.00	...	...	9.00	Cod liver oil, dried skim milk, meat scrap, bone meal, soybean oil meal, corn gluten meal, corn gluten feed, wheat bran, wheat middlings, corn meal or hominy feed, fine ground oats, alfalfa meal, phosphatic calcium carbonate, salt.
	P. 17.00	4.48	61.48	7.88	9.16	7.19	
Delton Sweet 20% Dairy Feed	G. 20.00	4.00	50.00	...	...	12.00	Cane molasses, linseed oil meal, corn gluten feed, cottonseed meal, soybean oil meal, peanut oil meal, wheat bran, wheat middlings, corn meal, reground oat feed, corn distillers' grains, phosphatic calcium carbonate, salt.
	P. 23.29	3.83	57.70	6.32	8.86	10.02	

Indian Sweet 24% Dairy Feed.....	G. F.	24.00 25.26	4.00 4.29	50.00 53.77	7.38	9.30	12.00 9.76	Cane molasses, corn gluten feed, linseed oil meal, cottonseed meal, soybean oil meal, peanut oil meal, corn meal, wheat bran, wheat middlings, corn distillers' grains, reground oat feed, phosphatic calcium carbonate, salt.
Dietrich & Gambrill								
All Purpose Complete Ration Starter-Grower-Layer	G. F.	15.00 16.07	4.00 4.28	55.00 62.12	7.96	9.57	7.00 5.23	Coarse ground yellow corn, coarse ground wheat, pulverized oats, flour middlings, wheat bran, alfalfa leaf meal, dried buttermilk, meat scrap, fish meal, soybean meal, steamed bone meal, 1% calcium carbonate, 1% salt, cod liver oil, potassium iodide, .0125% manganese sulphate equivalent to 30 p. p. m. of manganese. Found 69 p. p. m. Mn.
Big 4 Feed	G. F.	12.00 14.93	2.50 2.68	62.00 66.46	7.49	8.44	16.00 15.79	Alfalfa meal, wheat bran, dried brewers' grains, beet pulp, molasses, 1% salt, 1% bone meal, 1% calcium carbonate, potassium iodide.
D & G Breeder Mash	G. F.	19.00 20.31	5.00 4.89	53.00 54.81	10.97	9.02	9.00 6.97	Wheat bran, wheat middlings, yellow corn meal, pulverized oats, alfalfa leaf meal, fish meal, meat scraps, dried buttermilk, cod liver oil, soybean meal, malt flour, bone meal, 1% calcium carbonate, 1% salt, potassium iodide, .025% manganese sulphate equivalent to 61 p. p. m. of manganese. Found 81 p. p. m. Mn.
Gambrill's 16% Dairy Feed.....	G. F.	16.00 17.25	3.50 3.84	57.00 60.60	9.43	8.88	12.00 10.92	Cotton seed meal, peanut meal, gluten feed, wheat bran, corn feed meal, ground grain screenings from wheat, clipped oat by-products, oat middlings, oat shorts, oat hulls, molasses, 1% bone meal, 1% calcium carbonate, 1% salt.

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	Crude Fiber	
Carr's No. 1 Laying Mash	G. 20.00	5.00	51.00	...	...	7.00	Wheat bran, wheat middlings, corn feed meal, linseed meal, soybean meal, pulverized oats, alfalfa leaf meal, Gluten meal, malt flour, meat scrap, fish meal, dried buttermilk, bone meal, 1% calcium carbonate, 1% salt, cod liver oil, potassium iodide, .025% manganese sulphate equivalent to 61 p. p. m. of manganese. Found 74 p. p. m. Mn.
	F. 21.71	4.79	53.92	10.56	9.02	6.51	
Pan Met Baby Feed	G. 20.00	4.00	56.00	...	...	9.00	Gluten feed, cottonseed meal, linseed meal, peanut meal, dried brewers' grains, ground oats, corn feed meal, wheat bran, wheat middlings, molasses, 1% calcium carbonate, 1% bone meal, 1% salt.
	F. 20.97	5.74	58.74	6.58	7.97	8.93	
Poultry Conditioning Ration	G. 15.00	6.00	56.00	...	...	6.00	Cracked wheat, fine cracked corn, corn meal, red dog, pulverized oats, wheat bran, alfalfa leaf meal, dried buttermilk, fish meal, meat scraps, soybean oil meal, grit, bone meal, calcium carbonate, salt, mineral oil, peanut oil, cod liver oil, potassium iodide, .0125% manganese sulphate equivalent to 30 p. p. m. of manganese. Found 43 p. p. m. Mn.
	F. 15.50	6.00	58.61	11.02	8.87	5.04	
Dodge Grain Co. Methuen, Mass. Laying Mash	G. 17.00	4.00	52.50	...	...	7.00	Coarse corn meal, wheat bran, wheat middlings, ground oats, meat scraps, fish meal, dried skim milk, salt, alfalfa leaf meal, ground oyster shells, soybean meal, cod liver oil, vitadine (vitamin and mineral concentrate), molasses.
	F. 17.90	4.07	60.73	8.33	8.97	9.78	

Starting Growing Mash	G. 16.00 F. 18.30	4.00 4.32	50.00 60.51	... 8.47	... 8.40	7.00 10.65	Coarse corn meal, wheat middlings, ground oats, 50% meat scraps, 50% fish meal, dried skim milk, salt, alfalfa leaf meal, ground oyster shells, cod liver oil, vitadine (vitamin and mineral concentrate).
Dreyer Commission Co. St. Louis, Mo.							
Dryco Wheat Bran with Screenings	G. 14.50 F. 17.60	3.50 4.48	54.00 61.32	... 7.19	... 9.41	10.00	Pure wheat bran, ground wheat screenings not exceeding mill run.
W. E. Dunbar Sons Manchester, N. H.							
Dunbar's Dairy Ration	G. 22.00 F. 23.73	4.50 4.91	48.00 55.38	... 7.37	... 8.61	10.00 10.13	Wheat bran, linseed meal, cottonseed meal, brewers' grains, fine ground oats, hominy, gluten meal, bone meal, charcoal, calcium carbonate, salt.
Eagle Roller Mill Co. New Ulm, Minn.							
Eagle Wheat Bran	G. 14.00 F. 17.12	4.00 5.38	60.00 69.97	... 6.66	... 9.87	12.00	Wheat bran with ground wheat screenings not exceeding mill run.
Eagle Wheat Standard Middlings..	G. 15.00 F. 16.85	4.00 4.51	60.00 64.00	... 5.26	... 9.38	9.50	Wheat standard middlings with ground wheat screenings not exceeding mill run.
Eastern States Farmers' Exchange Springfield, Mass.							
Eastern States All-Mash Breeder..	G. 15.00 F. 16.90	4.00 4.77	57.00 62.78	... 7.42	... 8.13	6.00 5.58	810 lbs. E. S. yellow corn meal, 320 lbs. wheat bran, 320 lbs. wheat flour middlings, 184.75 lbs. E. S. ground oats, 70 lbs. 50% protein meat scraps, 60 lbs. alfalfa leaf meal, 60 lbs. 58% protein fish meal, 50 lbs. 41% protein soybean oil meal, 40 lbs. oyster shell meal, 30 lbs. dried skimmed milk, 30 lbs. dried whey, 10 lbs. dicalcium phosphate, 10 lbs. iodized salt, 5 lbs. fortified sardine oil with 1% wheat germ oil, .25 lbs. manganese sulphate equivalent to 30 p. p. m. of manganese. Found 95 p. p. m. Mn.

Pounds in 100 lbs. of Feeding Stuff

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuff					Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	Crude Fiber
Western States All-Mash Developer	G. 14.50	3.50	58.00	...	...	5.50
	F. 16.33	4.28	63.10	6.88	9.41	5.27
Eastern States All-Mash Egg.....	G. 15.50	4.00	56.00	...	...	6.00
	F. 17.16	5.01	60.99	7.64	9.20	5.78

767.25 lbs. E. S. yellow corn meal, 300 lbs. wheat bran, 280 lbs. wheat flour middlings, 160 lbs. E. S. ground oats, 120 lbs. E. S. ground barley, 60 lbs. 41% protein soybean oil meal, 50 lbs. alfalfa leaf meal, 40 lbs. 50% protein meat scraps, 40 lbs. 58% protein fish meal, 40 lbs. cane molasses, 40 lbs. corn gluten meal, 40 lbs. dried whey, 40 lbs. oyster shell meal, 10 lbs. iodized salt, 10 lbs. dicalcium phosphate, 2.5 lbs. fortified sardine oil with 2% wheat germ oil, .25 lbs. manganese sulphate equivalent to 30 p. p. m. of manganese. Found 86 p. p. m. Mn.

800 lbs. E. S. yellow corn meal, 335 lbs. wheat flour middlings, 330 lbs. wheat bran, 120 lbs. E. S. ground oats, 80 lbs. E. S. ground barley, 70 lbs. 50% protein meat scraps, 70 lbs. 58% protein fish meal, 50 lbs. alfalfa leaf meal, 50 lbs. 41% protein soybean oil meal, 50 lbs. oyster shell meal, 30 lbs. corn gluten meal, 10 lbs. iodized salt, 5 lbs. fortified sardine oil.

Eastern States Breeder Mash.....	G.	20.00	4.00	49.00	....	....	6.00	520 lbs. E. S. yellow corn meal, 260 lbs. wheat bran, 249.75 lbs. E. S. ground oats, 240 lbs. wheat flour middlings, 200 lbs. 50% protein meat scraps, 120 lbs. alfalfa meal, 100 lbs. 58% protein fish meal, 80 lbs. dried skimmed milk, 80 lbs. 41% protein soybean oil meal, 60 lbs. oyster shell meal, 40 lbs. dried whey, 20 lbs. iodized salt, 20 lbs. dicalcium phosphate, 10 lbs. fortified sardine oil with 1% wheat germ oil, .25 lbs. manganese sulphate equivalent to 30 p. p. m. of manganese. Found 99 p. p. m. Mn.
	F.	22.12	5.19	52.55	11.57	8.57	5.33	
Eastern States Calf Starter	G.	23.00	4.00	52.00	....	....	4.00	600 lbs. E. S. yellow corn meal, 460 lbs. rolled oats, 310 lbs. wheat bran, 200 lbs. blood flour, 160 lbs. dried skimmed milk, 120 lbs. 32% protein old process linseed meal, 100 lbs. 41% protein soybean oil meal, 20 lbs. dicalcium phosphate, 20 lbs. iodized salt, 10 lbs. fortified sardine oil.
	F.	24.65	4.54	55.90	5.02	9.89	3.48	
Eastern States Developer	G.	18.50	3.75	52.00	....	....	6.50	300 lbs. wheat bran, 300 lbs. E. S. ground oats, 250 lbs. E. S. yellow corn meal, 220 lbs. E. S. ground barley, 204.75 lbs. wheat flour middlings, 120 lbs. 41% protein soybean oil meal, 100 lbs. alfalfa leaf meal, 90 lbs. 50% protein meat scraps, 80 lbs. 58% protein fish meal, 80 lbs. dried whey, 80 lbs. cane molasses, 80 lbs. corn gluten meal, 60 lbs. oyster shell meal, 20 lbs. iodized salt, 10 lbs. dicalcium phosphate, 5 lbs. fortified sardine oil with 1% wheat germ oil, .25 lbs. manganese sulphate equivalent to 30 p. p. m. of manganese. Found 113 p. p. m. Mn.
	F.	19.92	4.40	57.19	9.79	8.70	6.14	

Pounds in 100 lbs. of Feeding Stuffs

Brand and Manufacturer	Protein	Fat	Carbo- hydrates	Ash	Moi- sture	Crude Fiber	Certified by manufacturer to contain
Eastern States Egg Mash	G. 20.00	4.00	49.00	...	...	6.50	430 lbs. E. S. yellow corn meal, 300 lbs. wheat bran, 260 lbs. wheat standard middlings, 250 lbs. E. S. ground oats, 160 lbs. E. S. ground barley, 140 lbs. 58% protein fish meal, 130 lbs. 50% protein soybean oil scraps, 100 lbs. 41% protein soybean oil meal, 80 lbs. alfalfa leaf meal, 60 lbs. corn gluten meal, 60 lbs. oyster shell meal, 20 lbs. iodized salt, 10 lbs. fortified sardine oil.
	P. 21.67	5.19	54.77	9.62	8.75	5.90	
Eastern States Fitting Ratcon	G. 12.00	3.50	60.60	...	...	8.50	500 lbs. wheat bran, 500 lbs. E. S. ground oats, 425 lbs. E. S. yellow corn meal, 200 lbs. cane molasses, 100 lbs. E. S. ground barley, 100 lbs. alfalfa leaf meal, 60 lbs. 32% protein old process linseed meal, 40 lbs. 41% protein soybean oil meal, 20 lbs. wheat germ oil meal, 20 lbs. dicalcium phosphate, 20 lbs. iodized salt, 5 lbs. fortified sardine oil.
	P. 15.02	3.84	65.05	6.67	9.39	7.39	
Eastern States Fishmeal	G. 18.50	3.60	55.00	...	...	4.50	515 lbs. wheat bran, 460 lbs. E. S. yellow corn meal, 360 lbs. dried whey, 360 lbs. dried skimmed milk, 100 lbs. 50% protein meat scraps, 60 lbs. 58% protein fish meal, 60 lbs. ground oat groats, 50 lbs. alfalfa leaf meal, 20 lbs. oyster shell meal, 10 lbs. iodized salt, 5 lbs. fortified sardine oil.
	P. 20.01	3.81	59.72	8.68	7.78	4.32	

6	Eastern States Fulwail	G.	20.00	4.00	52.00	...	8.50	300 lbs. E. S. ground oats, 300 lbs. E. S. yellow corn feed meal, 280 lbs. wheat bran, 260 lbs. 41% protein cottonseed meal prime quality, 200 lbs. distillers' corn dried grains, 200 lbs. cane molasses, 180 lbs. 41% protein soybean oil meal, 140 lbs. corn gluten feed, 80 lbs. 32% protein old process linseed meal, 20 lbs. wheat germ oil meal, 20 lbs. dicalcium phosphate, 20 lbs. iodized salt.
		F.	21.40	4.18	58.26	6.54	9.62	
	Eastern States Highland 20	G.	20.00	3.50	53.00	...	11.50	320 lbs. 41% protein cottonseed meal prime quality, 280 lbs. oat mill feed (oat hulls, oat shorts, oat middlings), 240 lbs. hominy feed, 220 lbs. wheat bran, 200 lbs. corn gluten feed, 200 lbs. 41% protein soybean oil meal, 200 lbs. cane molasses, 200 lbs. distillers' corn dried grains, 80 lbs. E. S. ground barley, 20 lbs. wheat germ oil meal, 20 lbs. calcium carbonate, 20 lbs. iodized salt.
		F.	21.27	3.66	58.27	7.41	9.39	
	Eastern States Hog Meal	G.	14.50	4.00	57.00	...	5.00	860 lbs. E. S. yellow corn meal, 500 lbs. E. S. ground barley, 140 lbs. 50% protein meal scraps, 117.5 lbs. wheat flour middlings, 100 lbs. wheat bran, 100 lbs. alfalfa leaf meal, 60 lbs. 32% protein old process linseed meal, 40 lbs. 41% protein soybean oil meal, 40 lbs. calcium carbonate, 20 lbs. dicalcium phosphate, 20 lbs. iodized salt, 2.5 lbs. fortified sardine oil.
		F.	16.50	4.31	60.84	9.23	9.03	
	Eastern States Horse Feed	G.	10.50	3.00	63.00	...	7.00	780 lbs. E. S. crimped oats, 720 lbs. E. S. yellow cracked corn, 200 lbs. wheat bran, 160 lbs. cane molasses, 100 lbs. 32% protein old process linseed meal, 20 lbs. dicalcium phosphate, 20 lbs. iodized salt.
		F.	11.64	3.36	69.52	4.91	10.57	

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuff						Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mols- ture	Crude Fiber	
Baltimore State Mills	G. 24.00	4.50	49.00	...	...	8.50	360 lbs. 41% protein soybean oil meal, 280
	P. 25.74	4.89	53.46	6.76	9.15	7.61	lbs. 41% protein cottonseed meal, prime quality, 260 lbs. E. S. ground oats, 260 lbs. wheat bran, 200 lbs. distillers' corn dried grains, 180 lbs. cane molasses, 120 lbs. E. S. yellow corn feed meal, 120 lbs. corn gluten feed, 80 lbs. palm kernel oil meal, 80 lbs. babassu kernel oil meal, 20 lbs. wheat germ oil meal, 20 lbs. dicalcium phosphate, 20 lbs. iodized salt.
Eastern States Sixteen	G. 16.00	4.00	56.00	...	...	8.00	380 lbs. E. S. yellow corn feed meal, 380
	P. 18.93	4.00	62.28	6.03	9.66	6.54	lbs. E. S. ground oats, 340 lbs. wheat bran, 200 lbs. distillers' corn dried grains, 200 lbs. cane molasses, 120 lbs. corn gluten feed, 120 lbs. 41% protein cottonseed meal prime quality, 80 lbs. E. S. ground barley, 60 lbs. 32% protein old process linseed meal, 60 lbs. 41% protein soybean oil meal, 20 lbs. wheat germ oil meal, 20 lbs. dicalcium phosphate, 20 lbs. iodized salt.
Eastern States Starling and Broiler	G. 18.50	4.00	53.00	...	...	5.00	550 lbs. E. S. yellow corn meal, 207.25
	P. 21.01	4.73	57.69	7.41	9.16	4.60	lbs. wheat flour middlings, 300 lbs. wheat bran, 200 lbs. ground oat groats, 100 lbs. alfalfa leaf meal, 100 lbs. 50% protein meat scraps, 100 lbs. 58% protein fish meal, 80 lbs. 41% protein soybean oil meal, 60 lbs. cane molasses, 60 lbs. corn gluten meal, 60 lbs. dried whey, 40 lbs. dried skimmed milk, 20 lbs. oyster shell meal, 10 lbs. iodized salt, 10 lbs. dicalcium phosphate, 2.5 lbs. fortified sardine oil with 2% wheat germ oil, 25 manganese sulphate equivalent to 30 p. p. m. of manganese. Found 84 p. p. m. Mn.

Elmore Milling Co. Oneonta, N. Y. Elmore Complete Starter-Broiler...	G.	18.00	4.00	55.00	....	....	6.00	Yellow corn meal, wheat middlings, oat meal flour, meat and bone meal, soybean oil meal, corn gluten meal, alfalfa leaf meal, dried buttermilk, cod liver oil, fish meal, manganese, oyster shell flour, salt.
	P.	18.82	4.43	58.29	9.40	9.36	5.12	
Elmore Egg Mash	G.	20.00	4.00	55.00	....	....	8.00	Dried skim milk, meat meal, second clear wheat flour, pure ground oats, wheat middlings, corn meal (No. 2, yellow), wheat bran, alfalfa leaf meal, fish meal, bone meal, cod liver oil, oyster shell flour, salt, manganese sulphate.
	P.	20.88	4.93	55.61	9.22	9.36	5.54	
Elmore M. A. C. Laying Mash.....	G.	17.00	5.00	60.00	....	....	7.00	Alfalfa leaf meal, wheat bran (may contain mill run screenings), corn meal, fish meal, wheat middlings, dried skim milk, ground heavy oats, meat scraps, oyster shell flour, cod liver oil, salt.
	P.	17.95	4.82	58.85	8.67	9.71	5.56	
Elmore Stock Feed	G.	10.00	3.00	60.00	....	....	12.00	Corn meal or hominy feed, ground oats, oat meal by-products (oat middlings, oat hulls, oat shorts), salt.
	P.	11.12	5.42	70.65	3.72	9.09	9.47	
Granger 20% Dairy Ration	G.	20.00	4.00	55.00	....	....	11.00	Wheat bran, dried brewers' grains, corn meal or hominy feed, cottonseed meal, gluten feed, wheat middlings, cane molasses, ground heavy oats, soybean oil meal, calcium carbonate, salt.
	P.	22.55	4.21	58.57	5.24	9.43	9.19	

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mols- ture	Crude Fiber	
John W. Eshelman & Sons Lancaster, Pa. Eshelman Certified Dairy ration	G. 29.60 F. 21.63	4.00 4.21	54.00 57.81	... 7.00	... 9.26	8.00 7.76	380 lbs. corn gluten feed, 340 lbs. hominy feed, 260 lbs. ground oats, 200 lbs. old process oil meal, 200 lbs. wheat bran, 140 lbs. cottonseed meal, 120 lbs. soybean oil meal, 100 lbs. wheat middlings, 100 lbs. corn distillers' dried grains, 100 lbs. cane molasses, 20 lbs. steamed bone meal, 20 lbs. calcium carbonate, 20 lbs. salt.
	G. 20.00 F. 22.77	4.00 4.03	55.00 53.94	... 9.61	... 9.62	11.00 9.36	Cottonseed meal, wheat bran, cane molasses, corn gluten feed, brewers' dried grains, corn distillers' dried grains, old process linseed oil meal, old process soybean oil meal, reground grain screenings from wheat, 1% bone meal, 1% calcium carbonate, 1% salt.
Eshelman Poultry Laying Mash ...	G. 18.00 F. 20.40	4.50 4.78	50.00 56.07	... 8.87	... 9.88	8.00 7.13	Corn meal, wheat middlings, meat scrap, wheat bran, ground oats, fine alfalfa meal, old process soybean oil meal, cane molasses, fish meal, corn gluten feed, old process linseed oil meal, fortified cod liver oil, 1% bone meal, 1% calcium carbonate, 1/80% manganese sulphate equivalent to 30 p. p. m. of manganese. Found 80 p. p. m. Mn.
	G. 16.00 F. 18.96	5.00 4.41	55.00 58.46	... 8.33	... 9.84	10.00 7.07	Wheat middlings, corn feed meal, digester tankage, soybean oil meal, wheat bran, 2% bone meal, 2% fish meal, 2% old process oil meal, 2% charcoal, reground grain screenings from wheat, 1% calcium carbonate, 1% salt.

Feed	Grain	Hay	Straw	Other	Protein	Minerals	Notes
Eshelman Starter	G. 16.00 F. 19.48	4.00 4.86	55.00 58.51	 8.54	 8.61	6.50 5.13	Corn meal, wheat bran, wheat middlings, oat meal, meat scrap, fish meal, old process soybean oil meal, alfalfa leaf meal, old process linseed oil meal, dried buttermilk, dried whey, fortified cod liver oil, 2 1/4% calcium carbonate, 1% bone meal, 1/2% salt, 1/80% manganese sulphate equivalent to 30 p. p. m. of manganese. Found 64 p. p. m. Mn.
Eshelman Red Rose Broiler Ration	G. 17.00 F. 20.53	4.50 4.50	55.00 56.92	 7.37	 10.68	7.50 5.96	Corn meal, wheat bran, wheat middlings, corn gluten meal, pulverized oats, meat scrap, wheat red dog, old process soybean oil meal, alfalfa meal, 2% dried buttermilk, 2% dried whey, old process linseed oil meal, fish meal, 3/10% fortified cod liver oil, 1% calcium carbonate, 1/2% salt, 1/80% manganese sulphate equivalent to 30 p. p. m. of manganese. Found 57 p. p. m. Mn.
Eshelman Red Rose Complete Laying Mash	G. 15.00 F. 17.86	4.00 4.10	58.00 61.13	 6.38	 10.53	6.00 5.34	Corn meal, ground wheat, ground barley, wheat middlings, wheat bran, ground oats, meat scrap, old process soybean oil meal, fine alfalfa meal, corn gluten feed, old process linseed oil meal, fish meal, dried buttermilk, dried whey, fortified cod liver oil, 1% calcium carbonate, 1/2% salt, 1/80% manganese sulphate equivalent to 30 p. p. m. of manganese. Found 66 p. p. m. Mn.
Eshelman Red Rose 16 Dairy Feed	G. 16.00 F. 18.25	4.50 3.98	55.00 59.65	 7.48	 10.64	11.00 7.89	Wheat bran, brewers' dried grains, corn distillers' dried grains, ground oats, cottonseed meal, corn meal, cane molasses, old process linseed oil meal, corn gluten feed, old process soybean oil meal, wheat germ oil, 1% bone meal, 1% calcium carbonate, 1% salt.

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	Crude Fiber	
Eshelman Red Rose 20 Dairy Feed	G. 20.00	4.00	55.00	...	...	11.00	Wheat bran, cottonseed meal, ground oats, corn gluten feed, cane molasses, brewers' dried grains, corn distillers' dried grains, corn meal, old process linseed oil meal, old process soybean oil meal, wheat germ oil, 1% bone meal, 1% calcium carbonate, 1% salt.
	F. 22.94	3.87	54.90	7.45	10.84	7.33	
Eshelman Red Rose 24 Dairy Feed	G. 24.00	4.00	50.00	...	...	11.00	Cottonseed meal, wheat bran, corn gluten feed, cane molasses, corn gluten meal, ground oats, brewers' dried grains, corn distillers' dried grains, corn meal, old process linseed oil meal, old process soybean oil meal, wheat germ oil, 1% bone meal, 1% calcium carbonate, 1% salt.
	F. 26.36	4.07	52.23	7.60	9.74	7.61	
Eshelman Red Rose Fitting Ration	G. 12.00	3.50	61.00	...	...	7.00	Wheat bran, crusted oats, corn meal, hominy feed, old process linseed oil meal, old process soybean oil meal, cane molasses, wheat germ oil, 1% bone meal, 1% calcium carbonate, 1% salt.
	F. 14.93	4.61	62.95	6.96	10.55	6.68	
Eshelman Red Rose Growing Mash	G. 16.00	4.00	55.00	...	...	7.50	Wheat middlings, corn meal, wheat bran, meat scrap, pulverized oats, corn gluten feed, oat meal, old process soybean oil meal, hominy feed, old process linseed oil meal, fish meal, dried buttermilk, dried whey, fine alfalfa meal, fortified liver oil, 1% calcium carbonate, 1/2% salt, 1/80% manganese sulphate equivalent to 30 p. p. m. of manganese. Found 84 p. p. m. Mn.
	F. 20.31	4.92	57.10	8.14	9.53	7.12	

Eshelman Red Rose Laying Mash..	G. F.	20.00 21.70	5.00 5.29	50.00 54.25	 9.12	 9.64	7.50 6.88	Wheat middlings, corn meal, meat scrap, wheat bran, corn gluten feed, ground oats, old process soybean oil meal, hominy feed, fine alfalfa meal, dried buttermilk, dried whey, fortified cod liver oil, 1% calcium carbonate, 1 1/2% salt, 1/80% manganese sulphate equivalent to 30 p. p. m. of manganese. Found 84 p. p. m. Mn.
Eshelman S. O. S.	G. F.	11.00 13.31	2.00 2.20	40.00 64.66	 9.38	 10.45	15.00 13.78	Wheat bran, alfalfa meal, brewers' dried grains, cane molasses, dried beet pulp, dried citrus pulp, 1% bone meal, 1% calcium carbonate, 1% salt.
Evans Milling Co. Indianapolis, Ind. Evans 41% Protein Soybean Oil Meal	G. F.	41.00 44.39	4.50 4.43	29.00 35.89	 5.97	 9.32	7.00	Expeller process soybean cake meal.
Excelsior Milling Co. Minneapolis, Minn. Camel Fancy Wheat Feed	G. F.	15.00 14.71	4.00 4.40	64.00 65.51	 5.41	 9.97	7.50	Wheat red dog, wheat middlings, wheat bran.
Farm Service Co. Fitchburg, Mass. Diamond C. Dairy	G. F.	20.00 21.01	4.00 4.00	53.00 58.67	 7.24	 9.08	9.00 7.74	Corn meal, hominy, wheat bran (with wheat screenings not exceeding mill run), ground oats, corn gluten feed, corn gluten meal, linseed oil meal, cottonseed meal, soybean oil meal, calcium carbonate, salt, with or without molasses.
Diamond C. Laying Mash	G. F.	15.00 16.68	4.00 5.56	55.00 59.17	 9.56	 9.03	8.50 7.18	Corn meal, wheat bran (with wheat screenings not exceeding mill run), wheat middlings (with wheat screenings not exceeding mill run), pulverized oats, ground oats, meat scraps, alfalfa meal, bone meal, salt.

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuff						Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	Crude Fiber	
Farm Service 20% Dairy	G. 20.00	4.00	50.00	...	...	10.00	Corn meal, hominy, wheat bran (with wheat screenings not exceeding mill run), corn gluten feed, oat middlings, soybean oil meal, soybean flakes, dried brewers' grains, cottonseed meal, linseed oil meal, beet pulp, malt feed, edible bone meal, molasses, calcium carbonate, salt.
	F. 20.31	3.38	53.83	7.19	9.29	9.71	
Farm Service 14% Pitting Ration...	G. 14.00	4.00	55.00	...	...	8.00	Corn meal, hominy, wheat bran, wheat, middlings (both with wheat screenings not exceeding mill run), crushed oats, soybean oil meal, old process oil meal, alfalfa stem meal, fish meal, edible bone meal, calcium carbonate, molasses, salt, fortified cod liver oil.
	F. 14.67	4.22	61.93	6.16	10.62	7.74	
Farm Service Starter and Broiler Ration	G. 18.00	3.50	60.00	...	...	7.00	Corn meal, pulverized oats, ground barley, wheat bran and wheat middlings (both with wheat screenings not exceeding mill run), soybean oil meal, alfalfa meal, 45% meat scraps, fish meal, dried skim milk, oyster shell meal, salt, fortified cod liver oil.
	F. 17.56	4.25	58.98	9.35	9.86	5.78	
N. E. C. Laying Mash	G. 19.00	5.00	50.00	...	...	6.00	Corn meal, wheat bran (with wheat screenings not exceeding mill run), flour middlings (with wheat screenings not exceeding mill run), ground oats, meat scraps, alfalfa meal, dried milk, fish meal, calcium carbonate, salt, cod liver oil.
	F. 15.12	4.59	56.65	10.88	9.76	6.75	

New Hampshire Mash	G.	19.00	5.00	50.00	....	....	6.00	Corn meal, wheat bran (with wheat screenings not exceeding mill run), flour middlings (with wheat screenings not exceeding mill run), ground oats, meat scraps, alfalfa meal, dried milk, fish meal, calcium carbonate, salt, cod liver oil.
	F.	18.21	4.94	57.55	8.80	10.50	5.45	
North Star All Mash	G.	16.00	4.50	50.00	....	....	5.00	Corn meal, wheat bran and middlings (with wheat screenings not exceeding mill run), soybean oil meal, ground wheat, pulverized oats, oat groats, cod liver meal, fish meal, meat scrap, fine cracked corn, dried whey, dried milk, dehydrated leaf alfalfa, calcium carbonate, salt, fortified cod liver oil.
	F.	18.65	4.50	59.54	7.61	9.70	5.25	
North Star 20% Dairy	G.	20.00	4.00	50.00	....	....	10.00	Corn meal, hominy, soybean oil meal, dried brewers' grains, corn gluten feed, wheat bran (with wheat screenings not exceeding mill run), cottonseed meal, dried beet pulp, molasses, oat middlings, malt feed, calcium carbonate, edible bone meal, salt.
	F.	20.18	3.55	58.83	7.33	10.11	9.79	
North Star 24% Dairy Feed	G.	24.00	4.00	48.70	....	....	11.00	Corn meal, hominy, ground oats, soybean oil meal, dried brewers' grains, distillers' grains, wheat bran (with wheat screenings not exceeding mill run), corn gluten meal, corn gluten feed, cottonseed meal, malt feed, linseed oil meal, molasses, calcium carbonate, ground barley, ground wheat screenings, bone meal, salt.
	F.	23.67	4.07	55.58	7.36	9.32	9.47	
North Star Growing Mash	G.	16.00	4.00	45.00	....	....	7.00	Corn meal, fine ground oats, wheat bran, wheat middlings, gluten feed, linseed meal, soybean meal, dried milk, alfalfa, meat scraps, fish meal, calcium carbonate, salt, cod liver oil.
	F.	20.44	4.76	55.41	9.76	9.63	6.59	

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuffs					Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	Crude Fiber
North Star Laundry Midds.	G. 26.00	5.00	45.00	...	...	7.00
	F. 22.02	3.38	52.58	10.59	9.43	6.94
North Star Stock Feed	G. 9.00	3.66	65.00	...	...	...
	F. 9.19	3.70	74.06	4.34	8.71	11.44
Wilbur Dairy	G. 20.00	5.00	55.00	...	...	...
	F. 20.14	4.33	58.25	6.45	10.83	7.51
Farmers' Feed Co. New York, N. Y. Hull House Feed House, Chicago	G. 26.00	6.60	...	...	...	...
	F. 26.71	7.18	56.24	3.85	6.02	17.00
Farmers' Service Bureau Baltimore, Md. Farmo Red Dog	G. 15.00	3.00	...	...	...	...
	F. 17.41	2.70	68.85	2.13	8.72	4.00
Federal Mill Leckport, N. Y. Dairy Maid Flour Middings.....	G. 13.50	3.50	...	...	...	...
	F. 15.67	4.63	66.63	3.42	9.65	6.00

With ground wheat screenings not ex-
ceeding mill run.

Corn meal, ground oats, pulverized oats,
wheat bran (with wheat screenings not
exceeding mill run), wheat middlings
(with wheat screenings not exceeding mill
run), corn gluten feed, linseed oil meal,
soybean meal, alfalfa meal, bean meal,
meat scraps, fish meal, dried milk, cal-
cium carbonate, salt, cod liver oil.

Corn meal, wheat middlings (with wheat
screenings not exceeding mill run), red
dog, ground barley, hominy, oat mid-
dlings, ground wheat screenings, salt.

Hominy, wheat bran (with wheat screen-
ings not exceeding mill run), cottonseed
meal, dried brewers' grains, molasses,
linseed oil meal, soybean meal, ground
oats, corn gluten feed, calcium carbonate,
salt.

Dairy Maid Standard Middlings.....	G. F.	13.50 14.63	3.50 3.86	58.00 69.14	2.81	9.56	8.50	Soft winter wheat with ground wheat screenings not exceeding mill run.
Dairy Maid Wheat Bran	G. F.	12.50 14.23	3.50 4.20	57.00 65.81	6.92	8.84	13.00	Soft winter wheat.
Dairy Maid Winter Wheat Mixed Feed	G. F.	13.00 14.27	3.50 3.99	57.00 66.91	 4.81	10.02	9.50	With ground wheat screenings not exceeding mill run.
Lucky Hard Wheat Bran	G. F.	16.00 17.90	3.50 4.79	60.00 61.16	6.46	9.69	14.00	
Lucky Standard Middlings	G. F.	16.00 17.96	4.00 4.98	56.00 62.05	 4.55	10.46	9.50	Hard wheat with ground wheat screenings not exceeding mill run.
Lucky Wheat Red Dog	G. F.	16.00 16.55	2.50 3.19	58.00 66.91	 2.77	10.58	4.00	
Finger Lakes & Hudson Flour Mills Geneva, N. Y.								
Kangaroo Red Dog	G. F.	16.00 18.25	3.50 3.57	62.00 63.92	3.05	11.21	4.00	Pure wheat product.
First National Stores Somerville, Mass								
Henfield Egg Mash	G. F.	20.00 20.62	4.00 4.92	50.00 53.88	10.45	10.13	7.00 6.01	Fortified cod liver oil, meat scraps, fish meal, dried skim milk, alfalfa meal, pulverized oats, hominy or corn meal, wheat middlings, wheat bran, wheat flour middlings, corn gluten feed, soybean oil meal, 1% steamed bone meal, calcium carbonate, ½% salt.
Fruen Milling Co. Minneapolis, Minn.								
Fruen's Feeding Rolled Oats	G. F.	16.00 16.55	5.00 6.35	65.37	1.84	10.89	2.00 1.74	Flaked oat groats.
Fruen's Glenwood Ground Screenings	G. F.	14.00 14.41	6.00 4.98	63.93	7.35	9.33	15.00 14.55	Screenings cleaned from flax, wheat, barley and oats.

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuff					Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mols- ture	Crude Fiber
J. B. Garland & Son Worcester, Mass. Garland Chick Starter	G. 17.00 F. 20.18	3.30 4.74	55.00 56.58	8.36	10.14	5.00 6.59
						Vitamin tested cod liver oil, corn meal, ground oats, oat meal, dried buttermilk, ground wheat, ground barley, fish meal, meat scraps, wheat bran, wheat middlings, alfalfa leaf meal, calcium carbonate, salt.
Garland Complete Starter and Broiler Mash	G. 17.00 F. 18.82	3.50 5.26	55.00 57.63	8.83	9.46	5.50 5.83
						Alfalfa leaf meal, fish meal, meat scraps, ground wheat, dried buttermilk, vitamin tested cod liver oil, ground barley, ground oats, corn meal, wheat bran, wheat middlings, calcium carbonate, salt.
Garland Horse Feed	G. 10.00 F. 11.29	2.00 3.67	60.00 69.82	3.42	11.40	9.00 6.26
						Cracked corn, crimped oats, linseed oil meal, wheat bran, molasses, $\frac{1}{2}\%$ fine table salt.
Garland Stock Feed	G. 8.50 F. 9.98	4.00 4.88	50.00 71.65	5.32	8.17	12.00 10.95
						Ground corn, ground oats, hominy feed, oat hulls, oat middlings, oat shorts, calcium carbonate, salt.
Royal 20% Fishy Ration	G. 20.00 F. 22.77	4.00 4.84	50.00 53.92	7.22	9.25	11.00 10.29
						Soybean oil meal, corn gluten feed, distillers' dried grains, wheat and wheat bran processed, cottonseed meal, palm kernel meal, ground corn, ground oats, molasses, calcium carbonate, salt.

Royal 24% Dairy Ration	G. F.	24.00 25.83	4.00 4.86	50.00 53.23	 7.18	 8.90	11.00 9.54	Soybean oil meal, ground corn, corn gluten feed, wheat and wheat bran processed, distillers' dried grains, cottonseed meal, palm kernel meal, molasses, calcium carbonate, salt, ground oats.
Royal Laying Mash with Cod Liver Oil	G. F.	18.00 18.87	2.00 3.06	50.00 56.51	 10.12	 9.41	8.00 7.74	Alfalfa meal, corn meal, ground oats, ground wheat, dried buttermilk, wheat bran, wheat middlings, vitamin tested cod liver oil, fish meal, meat scraps, linseed oil meal, soybean meal, calcium carbonate, salt.
General Foods Corp. Kankakee, Ill. Burt's Hominy Feed	G. F.	10.00 11.12	6.00 7.05	65.00 71.00	 2.80	 8.03	6.00	Made from white corn.
Glidden Co. Chicago, Ill. Glidden New Process Soybean Meal	G. F.	44.00 48.02	0.50 0.65	29.00 36.60	 6.69	 8.04	7.00 4.73	
J. R. Golder Portsmouth, N. H. Golder Special Complete Ration ...	G. F.	15.00 15.76	4.50 4.06	56.00 62.52	 7.68	 9.98	6.00 5.08	Coarse ground yellow corn, coarse ground fancy wheat, pulverized oats, potassium iodide, flour middlings, wheat bran, alfalfa leaf meal, dried buttermilk, meat scraps, fish meal, soybean meal, steamed bone meal, calcium carbonate, salt, cod liver oil, molasses.
Gorton-Pew Fisheries Co. Gloucester, Mass. Gorton's Cod Liver Meal Blend ...	G. F.	50.00 53.46	15.00 24.74	..... .....	.... 7.87	 5.68	2.00 1.11	

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuff					Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	Crude Fiber
Grafton County Feed Co. North Haverhill, N. H. Our Mix Dairy Ration	G. 22.00	4.50	53.00	...	...	...
	F. 23.38	4.68	56.32	6.74	8.78	8.00 8.43
D. H. Grandin Milling Co. Jamestown, N. Y. Grandin's Poultry Mash	G. 20.00	4.50	55.00	...	...	...
	F. 21.23	3.47	53.43	12.72	9.14	8.00 7.88
Grandin's Chick and Broiler Ration	G. 16.00	4.00	58.00	...	...	...
	F. 19.92	4.19	57.21	9.87	8.81	6.00 5.86
Grandin's 20% Dairy Feed	G. 20.00	4.00	55.00	...	...	...
	F. 20.92	4.40	57.58	7.41	9.99	10.00 6.63

Hominy feed, pure wheat bran, brewers' dried grains, 41% cottonseed meal, standard wheat middlings, corn gluten feed, soybean oil meal or old process linseed oil meal, molasses, salt, edible bone meal, calcium carbonate.

Fortified cod liver oil, dried whey, dried buttermilk, meat scraps, fish meal, soybean oil meal, corn gluten meal, dehydrated alfalfa leaf meal, wheat bran, wheat middlings, ground yellow corn, hominy feed, ground wheat, pulverized oats, ground barley, calcium carbonate, salt, potassium iodide, manganese sulfate.

Concentrated cod liver oil, dried buttermilk, ground meat and bone, fish meal, soybean oil meal, alfalfa leaf meal, ground hulled oats, ground wheat, wheat bran, wheat middlings, pulverized oats, ground barley, hominy feed, ground yellow corn, calcium carbonate, salt, potassium iodide.

Cane molasses, cottonseed meal, soybean oil meal, linseed oil meal, corn gluten feed, corn distillers' dried grains, wheat bran and wheat middlings (with mill run wheat screenings), yellow corn meal, hominy feed, ground oats, ground barley, steamed bone meal, calcium carbonate, salt, potassium iodide.

Grandin's 14% Fitting Ration	G.	14.00	3.50	60.00	...	9.00	Fortified cod liver oil, cane molasses, fish meal, soybean oil meal, linseed oil meal, wheat bran and wheat middlings (with mill run wheat screenings), yellow corn meal, hominy feed, crushed oats, ground oats, ground barley, steamed bone meal, calcium carbonate, salt, potassium iodide.
	F.	14.71	4.06	62.26	8.11	6.11	
Grandin's Green Feed	G.	10.00	1.00	50.00	...	25.00	Alfalfa meal, dried beet pulp, cane molasses.
	F.	11.64	1.00	70.20	7.50	22.40	
Grandin's Laying Mash	G.	20.00	4.00	50.00	...	8.00	Fortified cod liver oil, dried buttermilk, dried whey, meat scraps, fish meal, soybean oil meal, corn gluten meal, corn gluten feed, dehydrated alfalfa leaf meal, wheat bran, wheat middlings, ground yellow corn, hominy feed, pulverized oats, ground barley, calcium carbonate, salt, potassium iodide, manganese sulfate.
	F.	21.27	4.15	53.51	12.32	7.39	
Grandin's Milk Maker	G.	20.00	4.50	55.00	...	10.00	Dried beet pulp, cottonseed meal, soybean oil meal, linseed oil meal, corn gluten meal, corn gluten feed, corn distillers', dried grains, wheat bran and wheat middlings (with mill run wheat screenings), yellow corn meal, hominy feed, ground oats, ground barley, steamed bone meal, calcium carbonate, salt, potassium iodide.
	F.	23.55	4.79	55.87	6.85	7.98	
Grandin's Pig and Hog Ration	G.	18.00	5.00	57.00	...	10.00	Fortified cod liver oil, meat scraps, fish meal, soybean oil meal, linseed oil meal, alfalfa meal, wheat middlings (with mill run wheat screenings), yellow corn meal, corn feed meal, hominy feed, ground barley, calcium carbonate, salt, potassium iodide.
	F.	19.83	4.35	54.95	11.49	6.88	

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuff					Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	Crude Fiber
Grandin's Star-Ten-Mash ..	G. 16.00	4.00	58.00	...	...	7.00
	F. 18.12	4.01	59.70	8.80	9.37	6.97
Grandin's Stock Feed	G. 9.00	4.00	70.00	...	...	12.00
	F. 9.93	4.79	70.59	6.43	8.26	10.53
Grandin's Twin Six Dairy Feed .. S. Grandin Feed	G. 22.00	4.50	55.00	...	...	10.00
	F. 23.91	4.59	54.40	7.58	9.52	7.22
M. S. (Macon, S. Feed) Dairy .. Feed	G. 20.00	3.50	50.00	...	...	12.00
	F. 21.45	3.71	57.52	7.81	9.51	7.03

M-S (Money Saver) Growing Mash	G.	15.00	4.00	55.00	....	8.52	8.00	Fortified cod liver oil, dried buttermilk, dried whey, meat scraps, fish meal, soy-bean oil meal, corn gluten feed, alfalfa leaf meal, wheat bran, wheat middlings, yellow corn meal, corn feed meal, hominy feed, pulverized oats, ground barley, calcium carbonate, salt, potassium iodide, manganese sulfate.
	F.	15.94	4.00	59.07	11.47	8.52	7.12	
M-S (Money Saver) Laying Mash...	G.	18.00	4.00	50.00	....	8.80	8.00	Fortified cod liver oil, dried buttermilk, dried whey, meat scraps, fish meal, soy-bean oil meal, corn gluten feed, alfalfa leaf meal, wheat bran, wheat middlings, yellow corn meal, corn feed meal, hominy feed, pulverized oats, ground barley, calcium carbonate, salt, potassium iodide, manganese sulfate.
	F.	20.79	3.69	54.28	12.44	8.80	6.83	
Great Atlantic & Pacific Tea Co. New York, N. Y. Daily Egg Laying Mash Feed	G.	20.00	4.00	55.50	....	9.17	6.50	Ground oats, ground barley, soybean oil meal, old process linseed oil meal, corn gluten meal, wheat standard middlings, wheat bran, alfalfa meal, corn feed meal, dried buttermilk, dried skim milk, meat and bone scrap, fish meal, flour middlings, cod liver oil, cod liver meal, calcium carbonate from limestone $2\frac{1}{2}\%$; steamed bone meal $1\frac{1}{2}\%$, salt $\frac{1}{2}\%$, red iron oxide .02%, potassium iodide .0015%.
	F.	21.84	4.07	53.29	11.63	9.17	6.50	
Daily Growth Chick Starter	G.	16.50	4.50	56.50	....	10.43	4.50	Dried buttermilk, meat and bone scraps, fish meal, wheat flour, wheat standard middlings, ground corn, ground oats, ground oat groats, old process linseed oil meal, alfalfa leaf meal, cod liver oil, calcium carbonate from limestone 1%, salt $\frac{1}{2}\%$, steamed bone meal $\frac{1}{2}\%$.
	F.	16.85	4.71	58.05	9.96	10.43	4.36	

Pounds in 100 lbs. of Feeding Stuffs

Brand and Manufacturer	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	Crude Fiber	Certified by manufacturer to contain
Daily Growth Growing Mash	G. F. 17.50 17.95	4.00 4.45	56.50 56.68	 11.29	 9.63	6.50 6.08	Meat and bone scrap, dried buttermilk, dried skimmed milk, wheat bran, alfalfa meal, wheat standard middlings, corn feed meal, ground oats, ground barley, old process linseed oil meal, corn gluten feed, cod liver oil, 1% calcium carbonate from limestone, $\frac{1}{2}$ % steamed bone meal, $\frac{1}{2}$ % salt.
Daily Milk 16% Dairy Feed	G. F. 16.00 16.68	3.00 3.95	58.00 61.29	 9.50	 8.58	12.00 11.43	Wheat bran, cottonseed meal, wheat standard middlings, molasses, old process linseed oil meal, corn gluten meal, cleaned, ground and bolted screenings from wheat, oats, barley and flax, ground and bolted clipped oat by-products, calcium carbonate from limestone 1%, salt 1%, corn gluten feed, soybean oil meal, malt sprouts.
Milky Way Dairy Feed 20%	G. F. 20.00 21.76	3.50 3.19	56.00 59.51	 6.39	 8.55	9.00 8.23	Corn feed meal, dried grains from barley, malt and corn, wheat bran, cottonseed meal, wheat standard middlings, ground oats, ground barley, molasses, old process linseed oil meal, corn gluten meal, corn gluten feed, calcium carbonate from limestone 1%, salt 1%, soybean oil meal, malt sprouts.
Milky Way Dairy Feed 24%	G. F. 24.00 25.31	3.50 3.50	52.00 53.72	 7.27	 10.20	9.00 6.28	Corn feed meal, dried grains from barley, malt and corn, wheat bran, cottonseed meal, wheat standard middlings, ground oats, ground barley, molasses, old process linseed oil meal, corn gluten meal, corn gluten feed, calcium carbonate from limestone, 1% salt, 1% soybean oil meal, malt sprouts.

Frank B. Ham & Co. Toronto, Canada	G.	16.00	5.00	52.00	...	...	8.00
	F.	14.71	4.50	66.93	4.11	9.75	...
Hameo Wheat Shorts							
Hood Mills Co. Hood Mills, Md.	G.	14.00	5.00	...	...	...	4.00
	F.	14.36	5.64	64.18	4.15	11.67	2.91
Fine Ground Feeding Oat Meal							
Hoosier Soybean Mills Marion, Ind.	G.	41.00	4.50	55.00	...	...	7.00
	F.	44.91	5.21	34.55	6.19	9.14	...
Hoosier 41% Protein Soybean Oil Meal							
E. C. & W. L. Hopkins Cheshire County Mash	G.	18.00	4.00	50.00	...	...	7.00
	F.	19.52	4.67	55.13	10.87	9.81	6.54
Granite State Breeder Mash							
Granite State Calf Meal	G.	20.00	4.00	50.00	...	...	6.00
	F.	20.09	5.15	54.43	10.38	9.95	5.71
Granite State Calf Meal							
Granite State Calf Meal	G.	18.00	3.50	55.00	...	...	4.00
	F.	21.84	4.09	55.55	8.50	10.02	3.35
Granite State Calf Meal							

Oat groats, oat flour, oat middlings.

Soybean oil meal (old process expeller type).

Standard wheat bran, corn meal, corn gluten feed, beet scraps, white middlings, ground rolled oats, alfalfa leaf meal, ground oats, calcium carbonate, salt, dried milk, oil.

Corn meal, wheat middlings, wheat bran, ground barley, meat scraps, vacuum dried fish meal, pure Pacific kelp, dehydrated alfalfa meal, ground oats, dried whey, soybean oil meal, lactoflavin concentrate, oyster shell meal, concentrated cod liver oil, wheat germ oil.

Corn meal, rolled oats, wheat bran, old process oil meal, vacuum dried fish meal, dried skim milk, pure Pacific kelp, calcium carbonate, bone meal, concentrated cod liver oil.

Pounds in 100 lbs. of Feeding Stuffs

Feed and Manufacturer

	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	Crude Fiber	Certified by manufacturer to contain
Granite State Chick Starter	G. 16.00	4.00	50.00	...	...	5.60	Yellow corn meal, wheat bran, wheat middlings, feeding oat meal, soybean oil meal, dried whey, lactofavin concentrate, choice meat scraps, alfalfa leaf meal, Pacific coast kelp, vacuum dried fish meal, oyster shell meal, concentrated cod liver oil.
	P. 20.35	4.99	56.86	8.83	8.97	6.00	
Granite State Complete Mixed Feed	G. 15.00	4.00	56.00	...	...	9.00	Ground whole corn, ground whole oats, ground whole wheat, wheat bran, wheat middlings, alfalfa leaf meal, soybean meal, Pacific coast kelp, dried skim milk, meat scraps, vacuum dried fish meal, calcium carbonate, concentrated cod liver oil.
	P. 16.59	5.39	58.47	10.49	9.66	6.34	
Granite State 20% Pure Feed	G. 20.00	4.00	50.00	...	...	11.00	Corn meal, gluten feed, cottonseed meal, old process linseed meal, malt grain, wheat bran, soybean meal, distillers' grains, molasses, bone meal, kelp, calcium carbonate, salt.
	P. 22.94	4.84	55.44	7.65	9.13	7.80	
Granite State 24% Pure Feed	G. 24.00	4.00	48.00	...	...	10.00	Gluten feed, corn meal or hominy, old process oil meal, wheat bran, choice cottonseed meal, malt grain, molasses, ground oats, distillers' grains, soybean meal, bone meal, calcium carbonate, kelp.
	P. 26.05	4.05	52.10	8.80	9.00	7.88	

Granite State Egg Mash	G.	19.00	4.00	50.00	....	....	5.50	Dried skim milk, ground whole oats, ground whole corn, wheat middlings, wheat bran, gluten meal, meat scraps, alfalfa leaf meal, Pacific coast kelp, vacuum dried fish meal, calcium carbonate, tested cod liver oil.
	F.	20.00	5.83	54.99	10.36	8.82	6.38	
Granite State Growing Mash	G.	17.00	4.00	58.00	....	....	6.50	Ground whole corn, wheat bran, wheat middlings, soybean oil meal, dehydrated alfalfa leaf meal, ground whole oats, meat scraps, dried skim milk, Pacific coast kelp, vacuum dried fish meal, calcium carbonate, concentrated cod liver oil, manganese sulfate.
	F.	19.96	6.02	54.78	10.99	8.25	6.90	
Granite State Mixed Feed	G.	15.00	4.00	55.00	....	....	8.50	Wheat bran, wheat red dog (bran may contain ground screenings not exceeding mill run).
	F.	17.29	5.14	62.21	4.82	10.54	....	
Granite State Stock Feed	G.	9.00	5.00	60.00	....	....	10.00	Fine white hominy, wheat red dog, oat by-products, oat middlings, oat hulls, oat shorts, $\frac{1}{2}\%$ salt.
	F.	11.25	5.65	63.59	5.85	7.66	9.59	
Granite State Turkey Growing	G.	20.00	4.00	50.00	....	....	7.00	Corn meal, ground oats, pure wheat bran, standard middlings, dehydrated alfalfa leaf meal, soybean oil meal, dried kelp, flaydry (dried whey, lactoflavin concentrate), beef scraps, vacuum dried fish meal, calcium carbonate, concentrated cod liver oil.
	F.	22.77	5.54	52.03	10.81	8.85	6.54	
20% Open Formula Dairy Feed	G.	20.00	4.50	53.00	....	....	8.00	460 lbs. yellow hominy, 400 lbs. wheat bran, 260 lbs. dried distillers' grains, 200 lbs. corn gluten feed, 200 lbs. 41% cottonseed, 200 lbs. soybean meal, 140 lbs. molasses, 100 lbs. ground oats, 20 lbs. dicalcium phosphate, 20 lbs. salt.
	F.	22.77	4.26	54.86	7.99	10.12	6.57	

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuff's						Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Moisture	Crude Fiber	
Red Tag Open Formula Dairy Feed	G. 20.00 F. 22.42	4.60 3.92	53.00 56.66	8.02	8.98	12.00 10.50	400 lbs. distillers' corn dried grains, 360 lbs. oat feed, 260 lbs. yellow hominy feed, 260 lbs. 41% cotton seed, 200 lbs. cane molasses, 200 lbs. corn gluten feed, 180 lbs. soybean oil meal, 100 lbs. wheat bran, 20 lbs. oyster shell meal, 20 lbs. salt.
Swain's Dairy Feed	G. 20.00 F. 24.78	4.60 4.21	55.00 57.39	8.12	8.50	9.00 8.42	Oil meal, cottonseed meal, corn meal, corn gluten meal, ground oats, wheat bran, dried beet pulp, oyster shell meal, salt.
Hubinger Co. Keokuk, Iowa Keokuk Corn Gluten Feed	G. 25.00 F. 26.92	2.00 2.29	58.50 57.91	4.17	7.71	8.50	Corn gluten feed.
Humphreys-Gedwin Co. Memphis, Tenn. Dry Brand Cottonseed Meal 41% Prime Quality	G. 41.06 F. 41.11	5.66 6.33	26.00 28.70	7.60	6.26	12.00	Pressed cottonseed.
International Milling Co. Minneapolis, Minn. Blackhawk Pure Wheat Bran	G. 15.06 F. 17.26	3.50 4.93	62.60 62.35	5.81	9.62	12.00	Pure wheat bran.
Blackhawk Wheat Red Dog	G. 16.00 F. 18.55	3.50 4.66	64.00 62.47	5.16	10.72	4.00	Ground screenings not exceeding mill run.
Blackhawk Wheat standard Mid- dlings	G. 10.00 F. 17.31	4.50 4.52	66.50 61.95	5.46	10.23	8.50	

Ismert-Hincke Milling Co. Topeka, Kans.	Oracle Pure Wheat Bran	G. 16.00	3.50	58.00	...	...	11.00	Pure wheat bran.
		F. 16.37	4.07	61.94	6.85	10.77	....	
W. J. Jennison Co. Minneapolis, Minn.	Sweet Cream Wheat Flour Middlings	G. 16.00	4.00	...	...	...	6.00	With ground screenings not exceeding mill run.
		F. 18.04	4.29	62.85	4.09	10.73	....	
Ralph P. Johnson & Son Potter Place, N. H.	Johnson's Chick Starter	G. 16.00	3.00	50.00	...	...	10.00	Corn meal, wheat bran, wheat middlings, feeding oatmeal, meat scraps, dried skim milk, alfalfa meal, fish meal, soybean meal, calcite flour, manganese sulfate, cod liver oil, 1% salt.
		F. 19.13	5.30	56.58	8.68	10.31	4.13	
Johnson's Dairy Feed		G. 16.00	3.00	50.00	...	...	9.00	Corn meal, linseed meal, cottonseed meal, ground oats, wheat bran, gluten feed, 1% salt.
		F. 18.96	3.17	61.31	7.11	9.45	7.03	
Johnson's Growing Mash		G. 14.00	3.50	50.00	...	...	8.00	Corn meal, wheat bran, wheat middlings, ground oats, dried skim milk, fish meal, meat scraps, alfalfa meal, soybean meal, gluten feed, calcite flour, cod liver oil, manganese sulfate, 1% salt.
		F. 17.34	5.02	59.30	8.12	10.22	5.46	
Johnson's Mash Feed		G. 18.00	4.00	50.00	...	...	7.00	Corn meal, ground oats, wheat middlings, wheat bran, meat scraps, gluten feed, alfalfa meal, charcoal, soybean meal, dried skim milk, calcite flour, bone meal, cod liver oil, 1% salt.
		F. 18.01	4.64	58.06	9.25	10.04	5.56	
Kansas Flour Mills Corp. Kansas City, Mo.	Big Flake Pure Wheat Bran	G. 15.00	3.50	60.00	...	...	11.00	Pure wheat bran.
		F. 16.64	4.23	61.93	6.65	10.55	....	

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuff					Crude Fiber	Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrate	Ash	Mois- ture		
Kasco Mills Waverly, N. Y. Apex 20% Dairy Ration	G. 20.00	3.50	50.00	...	...	12.00	Soybean oil meal, cottonseed meal, corn gluten feed, corn gluten meal, wheat bran, ground wheat screenings, oat mill feed (oat middlings, oat shorts, oat hulls), malt sprouts, dried brewers' grains, corn distillers' grains, cane molasses, 1% salt, 1% calcite.
	P. 21.89	3.25	56.59	8.29	9.58	8.86	
Apex Laying Mash	G. 20.00	4.00	50.00	...	...	8.50	Wheat bran, wheat middlings, corn meal, linseed oil meal, soybean oil meal, pulverized oats, meat scrap, bone meal, fish meal, dried skim milk, dried whey, ground barley, 3% salt, calcite, tested cod liver oil, alfalfa meal, lactoflavin concentrate.
	P. 21.14	4.23	56.88	7.73	10.02	5.68	
Beatsall Milk Grains	G. 22.00	4.00	50.00	...	...	10.00	Wheat bran, wheat middlings, linseed oil meal, corn distillers' grains, corn gluten feed, corn gluten meal, cottonseed meal, soybean oil meal, hominy feed, 3% salt, 1% calcite, beet pulp, molasses.
	P. 22.17	3.78	53.82	7.64	9.99	7.15	
Kasco All Mash Chick Starter	G. 17.00	4.00	55.00	...	...	5.50	Wheat red dog, oat meal, wheat middlings, wheat bran, corn meal, meat scrap, fish meal, bone meal, linseed oil meal, dried skim milk, dried whey, 1% salt, calcite, tested cod liver oil, alfalfa leaf meal, lactoflavin concentrate, soybean oil meal, pulverized oats, 0.125% manganese sulphate equivalent to 30 p. p. m. of manganese. Found 57 p. p. m. Mn.
	P. 18.74	4.75	59.66	6.70	10.15	5.26	

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuff						Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Moisture	Crude Fiber	
Kasco Growing Mash	G. 18.00	4.00	50.00	...	...	7.50	Corn meal, pulverized oats, oat meal, ground barley, wheat bran, wheat middlings, wheat red dog, linseed oil meal, soybean oil meal, meat scrap, alfalfa leaf meal, fish meal, bone meal, dried skim milk, dried whey, lactoflavin concentrate, 3% salt, calcite, tested cod liver oil.
	F. 20.05	4.60	56.77	9.23	9.35	6.44	
Kasco Horse Feed	G. 9.00	3.00	60.00	...	...	10.00	Cracked corn, oats, crushed oats, linseed oil meal, alfalfa meal, molasses, 1% salt, 1% calcite.
	F. 9.85	3.17	69.76	6.20	11.02	7.43	
Kasco Laying and Breeding Mash ..	G. 20.00	4.00	50.00	...	...	7.00	Wheat bran, wheat middlings, corn meal, linseed oil meal, soybean oil meal, ground oat meal, wheat red dog, meat scrap, bone meal, fish meal, dried skim milk, 3% salt, calcite, tested cod liver oil, alfalfa leaf meal, pulverized oats, dried whey, lactoflavin concentrate, .0125% manganese sulphate equivalent to 30 p. p. m. of manganese. Found 105 p. p. m. Mn.
	F. 22.94	4.96	56.55	6.37	9.18	6.96	
Kasco Open Formula 20% Dairy Ration	G. 20.00	3.50	50.00	...	...	10.00	200 lbs. wheat bran, 175 lbs. wheat middlings, 200 lbs. hominy feed, 25 lbs. ground barley, 75 lbs. ground oats, 100 lbs. malt sprouts, 150 lbs. dried brewers' grains, 350 lbs. corn gluten feed, 50 lbs. corn distillers' grains, 175 lbs. soybean oil meal, 200 lbs. 41% cotton seed meal, 250 lbs. cane molasses, 25 lbs. salt, 25 lbs. calcite.
	F. 22.63	3.75	56.97	7.70	8.95	7.41	

Kasco Pig Hog Feed	G. F.	17.00 18.95	4.00 5.31	60.00 58.37	7.42	9.95	8.00 6.33	Wheat red dog, fine ground barley, corn meal, linseed oil meal, soybean oil meal, wheat middlings, corn germ meal, fish meal, digester tankage, $\frac{1}{2}\%$ salt, 1% calcite, red oxide of iron, .005% potassium iodide, choice alfalfa meal.
Kasco Poultry Fattener	G. F.	13.00 20.71	4.00 4.65	60.00 59.57	7.20	7.87	6.00 6.68	Corn meal, ground oats, rolled oats, meat scrap, wheat middlings, wheat red dog, soybean oil meal, linseed oil meal, corn germ meal, 1% salt.
Kasco Poultry Flushing Mash	G. F.	17.00 19.00	4.00 4.00	55.00 58.42	10.06	8.52	5.50 5.25	Wheat red dog, oat meal, wheat middlings, wheat bran, corn meal, meat scrap, fish meal, bone meal, linseed oil meal, pulverized oats, dried whey, $\frac{1}{2}\%$ salt, calcite, tested cod liver oil, alfalfa leaf meal, lactolavin concentrate, soybean oil meal.
Kasco Stock Feed	G. F.	9.00 11.95	5.00 5.20	60.00 70.28	4.43	8.14	10.00 8.22	White hominy, wheat red dog, oat mill feed (oat middlings, oat shorts, oat hulls), $\frac{1}{4}\%$ salt.
Kasco Sweet 16% Dairy Feed	G. F.	16.00 19.35	3.50 3.29	50.00 58.71	9.31	9.34	12.00 9.65	Wheat bran, corn gluten feed, corn gluten meal, cottonseed meal, soybean oil meal, ground oats, ground barley, ground wheat screenings, corn meal, oat mill feed (oat middlings, oat hulls, oat shorts), malt sprouts, dried brewers' grains, corn distillers' grains, molasses, 1% salt, 1% calcite.
Kerr Milling Co. Sioux City, Iowa Splendid Pure Hard Wheat Bran...	G. F.	14.00 17.47	3.00 4.50	61.00 61.34	7.09	9.60	12.00	Pure hard wheat bran.

Pounds in 100 lbs. of Feeding Stuff

Brand and Manufacturer	Protein	Fat	Carbo- hydrate	Ash	Mois- ture	Crude Fiber	Certified by manufacturer to contain
Keystone Dairy Co. Brooklyn, N. Y.							
Skim Milk Powder	G. 32.00 F. 34.85	0.75 0.79	51.00	8.45	4.91	....	Raw milk from which the cream or fat and water have been removed and to which nothing has been added.
King Midas Flour Mills Minneapolis, Minn.							
Clover Leaf Pure Wheat Bran	G. 15.00 F. 17.20	4.00 5.37	62.60 62.12	7.78	8.53	12.00	Pure wheat bran.
Wheat Standard Middlings	G. 15.00 F. 17.64	4.00 5.39	59.50 62.51	4.80	9.66	9.50	Wheat standard middlings, ground cleaned wheat screenings not exceeding mill run.
Kraft-Phenix Cheese Corp. Chicago, Ill.							
Kraco Dried Cheese Whey	G. 12.00 F. 12.12	0.50 0.66	74.19	8.30	4.73	....	Lactic acid 1%, a natural source of vitamin G, lactose and milk minerals.
Kuder Meal Co. San Antonio, Texas							
Texsun Kuder Citrus Pulp	G. 6.00 F. 6.13	4.80 2.22	72.50 72.01	10.96	8.68	10.50 10.34	Dried citrus peel, seeds and pulp.
Larrowe Milling Co. Detroit, Mich.							
Larrowe Feed	G. 20.00 F. 22.28	3.50 3.77	52.50 57.09	7.82	9.04	7.00 5.79	Yellow corn meal, wheat standard mid- dlings, corn gluten meal, alfalfa meal, wheat bran, meat and bone scraps, soy- bean oil meal, fish meal, ground oats, dried buttermilk, dried skimmed milk, dried whey, fortified cod liver oil, 2% limestone, 1/2% salt, .01% manganese dioxide equivalent to 63 p. p. m. of man- ganese. Found 83 p. p. m. Mn.

Larro Calf Builder	G.	25.00	4.00	54.50	....	....	4.50	Oat meal, wheat standard middlings, yellow corn meal, old process linseed oil meal, soybean oil meal, blood flour, dried buttermilk, dried skimmed milk, fortified cod liver oil, 1½% limestone, ½% salt.
	F.	26.09	4.14	55.03	5.99	8.75	3.64	
Larro Chick Builder	G.	19.00	4.00	53.00	....	....	7.00	Wheat bran, yellow corn meal, wheat standard middlings, ground barley, meat and bone scraps, soybean oil meal, fish meal, alfalfa meal, dried buttermilk, dried skimmed milk, dried whey, ground oats, fortified cod liver oil, 2½% limestone, ½% salt, .01% manganese dioxide equivalent to 63 p. p. m. of manganese. Found 92 p. p. m. Mn.
	F.	20.79	4.22	55.82	10.30	8.87	5.71	
Larro Egg Mash	G.	20.00	4.00	52.50	....	....	7.50	Wheat bran, yellow corn meal, wheat standard middlings, ground barley, meat and bone scraps, soybean oil meal, fish meal, alfalfa meal, dried buttermilk, dried skim milk, dried whey, ground oats, fortified cod liver oil, 2½% limestone, ½% salt, .01% manganese dioxide equivalent to 63 p. p. m. of manganese. Found 119 p. p. m. Mn.
	F.	21.49	4.64	54.61	10.15	9.11	6.11	
Larro Pig Builder	G.	17.50	4.00	56.50	....	....	7.50	Wheat bran, yellow corn meal, wheat standard middlings, fish meal, meat and bone scraps, old process linseed oil meal, alfalfa meal, dried beet pulp, 1½% limestone, ¾% salt, soybean oil meal.
	F.	19.26	4.30	58.04	8.62	9.78	6.00	
Larro, the Ready Ration	G.	20.00	3.75	57.00	....	....	12.00	Cottonseed meal, yellow corn meal, wheat standard middlings, soybean oil meal, old process linseed oil meal, corn gluten feed, corn distillers' dried grains, dried beet pulp, wheat bran, ½% limestone, 1% salt.
	F.	21.54	4.09	58.94	6.45	8.98	10.16	

Brands and Manufacturers	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	Crude Fiber	
L. E. Levitt & Co. Memphis, Tenn. Lovitt Brand 41% Cottonseed Meal	G. 19.00 F. 20.18	3.50 4.48	52.00 56.66	 10.69	 7.99	7.00 5.89	Yellow corn meal, wheat standard mid- dlings, wheat bran, meat and bone scraps, soybean oil meal, ground oats, dried buttermilk, dried skimmed milk, dried whey, alfalfa meal, 2 1/2% limestone, 1/2% salt, ground barley.
	G. 41.00 F. 40.16	5.00 7.17	38.00 39.63	 6.68	 6.36	13.00	
Maine Fish Meal Co. Portland, Me. Maine Vitamin D Fish Meal	G. 25.00 F. 25.12	10.00 15.45	..... .....	.... 21.26	 8.02	1.00	Cottonseed meal.
	G. 15.00 F. 16.42	3.50 4.86	50.00 61.26	 5.63	 8.83	12.00	
Maple Leaf Milling Co. Toronto, Canada Rex Wheat Bran	G. 16.00 F. 17.12	5.00 5.23	53.00 63.40	 4.50	 9.75	7.50	With screenings not exceeding mill run. Screenings not exceeding mill run.
	G. 20.00 F. 22.25	4.00 4.32	55.00 55.97	 7.03	 9.83	9.00 7.47	
Maritime Milling Co. Buffalo, N. Y. B-B Bull Brand 20 Dairy. Ration	G. 20.00 F. 22.25	4.00 4.32	55.00 55.97	 7.03	 9.83	9.00 7.47	Dried brewers' grains, cottonseed meal, corn gluten feed, soybean oil meal, old process linseed oil meal, hominy feed, corn meal, wheat bran, wheat middlings, molasses, steamed bone meal, calcium carbonate, salt, potassium iodide.
	G. 20.00 F. 22.25	4.00 4.32	55.00 55.97	 7.03	 9.83	9.00 7.47	

B-B Bull Brand 24% Dairy Ration Sweetened	G.	24.00	4.00	50.00	.....	.....	9.00	Dried brewers' grains, corn distillers' grains, cottonseed meal, corn gluten feed, soybean oil meal, old process linseed oil meal, hominy feed, corn meal, wheat bran, wheat standard middlings, molasses, steamed bone meal, calcium carbonate, salt, potassium iodide.
	F.	25.04	4.04	54.38	6.73	9.81	8.37	
B-B Bull Brand Dry and Fresh Cow Fitting Ration	G.	13.00	4.00	65.00	.....	.....	9.00	Dried beet pulp, hominy feed, corn meal, alfalfa meal, soybean oil meal, crushed oats, wheat bran, old process linseed oil meal, corn gluten feed, molasses, steamed bone meal, calcium carbonate, salt, potassium iodide.
	F.	13.70	3.33	63.53	8.54	10.90	8.75	
B-B Bull Brand Horse Feed.....	G.	8.00	2.00	65.00	.....	.....	10.00	Molasses, cracked corn, crushed oats, alfalfa meal, old process linseed oil meal, calcium carbonate, salt.
	F.	9.42	3.21	72.94	3.71	10.72	9.04	
B-B Complete Chick Starter Ration	G.	20.00	4.00	60.00	.....	.....	6.00	Fortified cod liver oil, kelp meal, dried cheese whey, dried buttermilk, dehydrated alfalfa leaf meal, wheat standard middlings, wheat bran, ground wheat, corn gluten meal, corn meal, pulverized heavy oats, pulverized barley, soybean oil meal, ground oat meal, meat and bone meal, fish meal, calcium carbonate, salt, potassium iodide, manganese sulphate.
	F.	20.97	4.82	55.36	8.92	9.93	5.33	
B-B Daisy Egg Mash	G.	20.00	3.50	55.00	.....	.....	9.00	Cod liver oil, dried buttermilk, alfalfa meal, wheat bran and wheat middlings with mill run ground screenings, soybean oil meal, corn gluten meal, corn meal, pulverized barley, pulverized oats, meat and bone meal, fish meal, calcium carbonate, salt.
	F.	21.19	4.81	51.87	12.80	9.33	7.86	

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuff						Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	Crude fiber	
B-B Potbelly Mash	G. 13.00 P. 17.69	4.00 5.48	60.00 59.97	7.17	9.69	6.00 6.44	Milk sugar feed, dried buttermilk, wheat flour middlings, wheat middlings with mill run ground screenings, corn meal, corn germ meal, dehydrated alfalfa meal, pulverized barley, pulverized heavy oats, corn gluten meal, old process linseed oil meal, ground oat meal, meat and bone meal, calcium carbonate, salt.
B-B Potbelly and Conditioning Mash	G. 14.00 P. 15.89	2.50 4.43	70.00 63.15	7.07	9.46	4.00 4.11	Cod liver oil, milk sugar feed, dried buttermilk, dehydrated alfalfa leaf meal, wheat middlings, corn meal, ground oat meal, soybean oil meal, meat and bone meal, fish meal, calcium carbonate, salt, potassium iodide.
B-B Potbelly Dairy Feed 24%	G. 24.00 P. 25.78	4.00 4.15	50.00 51.82	8.88	9.37	12.00 8.68	Dried brewers' grains, cottonseed meal, corn gluten feed, soybean oil meal, hominy feed, corn meal, ground oats, cleaned, pulverized and bolted grain screenings from wheat, oats, and barley, wheat bran, molasses, steamed bone meal, calcium carbonate, salt.
B-B Layer and Breeder Mash	G. 20.00 P. 20.09	4.50 5.43	50.00 52.86	12.46	9.13	7.00 6.62	Cod liver oil, liver meal, kelp meal, milk sugar feed, dried buttermilk, dehydrated alfalfa leaf meal, wheat bran and wheat middlings with mill run ground screenings, soybean oil meal, corn gluten meal, corn meal, pulverized heavy oats, pulverized heavy barley, ground oat meal, meat and bone meal, fish meal, calcium carbonate, salt, potassium iodide.

Hiltest Dairy Feed 20%	G. 20.00 F. 20.62	4.00 4.00	50.00 57.34	7.88	10.16	12.00 9.19	Dried brewers' grains, cottonseed meal, corn gluten feed, soybean oil meal, hominy feed, ground oats, corn meal, cleaned, pulverized and bolted grain screenings from wheat, corn, oats and barley, wheat bran, molasses, steamed bone meal, calcium carbonate, salt.
Marmico 16% Dairy Feed with Molasses	G. 16.00 F. 16.55	4.00 3.81	58.00 60.84	8.84	9.96	12.00 11.02	Dried brewers' grains, soybean oil meal, cottonseed meal, corn gluten feed, corn meal, cleaned, pulverized and bolted grain screenings from wheat, corn, oats, and barley, wheat bran, molasses, steamed bone meal, calcium carbonate, salt.
Meadow Brook Farms Nazareth, Pa. Superior Alfalfa Meal	G. 17.00 F. 14.63	2.00 2.19	69.55	9.46	4.17	27.00 26.54	
Merrimack Farmers' Exchange Concord, N. H. Merrimack All Mash	G. 15.00 F. 15.72	4.00 4.18	60.00 62.92	6.27	10.91	6.00 4.51	Ground oats, cracked wheat, corn meal, wheat bran, soybean oil meal, oat groats, alfalfa leaf meal, meat scraps, fish meal, dried skimmed milk, calcium carbonate, steamed bone meal, salt, tested oil.
Merrimack Baby Chick Starter	G. 16.00 F. 17.12	4.00 4.78	50.00 60.75	7.07	10.28	4.00 3.90	Soybean oil meal, tested oil, corn meal, wheat middlings, wheat bran, wheat, alfalfa leaf meal, meat scraps, fish meal, oat groats, dried milk, edible bone meal, salt, calcium carbonate, cod liver meal.
Merrimack Calf Meal	G. 20.00 F. 22.24	4.50 5.43	55.00 58.70	4.32	9.31	5.00 4.48	Tested oil, soybean oil meal, oat groats, linseed oil meal, red dog, hominy, dried blood, fish meal, dried milk, anise, fenugreek.

Pounds in 100 lbs. of Feeding Stuffs

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mols- ture	Crude Fiber	
Merrimack Dairy Ration	G. 26.00 F. 21.36	4.50 4.57	50.00 57.02	8.46	8.59	10.00 8.37	Dried brewers' grains, gluten, cottonseed, soybean meal, oil meal, bran, middlings, ground oats, bone meal, salt, corn meal, calcium carbonate, distillers' dried grain.
	G. 20.00 F. 21.05	4.00 3.34	55.00 58.74	8.62	8.85	11.00 10.87	Corn meal, corn gluten meal, cottonseed meal, wheat bran, oat mill feed, corn gluten feed, soybean oil meal, cane molasses, salt, calcium carbonate.
Merrimack Dairy Ration	G. 14.00 F. 13.68	4.50 4.06	60.00 64.99	6.62	10.65	8.00 6.00	Soybean oil meal, ground oats, corn meal, wheat bran, linseed oil meal, cane molasses, calcium carbonate, steamed bone meal, salt, tested oil.
	G. 15.00 F. 17.07	4.00 4.40	55.00 63.14	5.10	10.29	9.00	Bran, second clear flour.
Merrimack Heavy Wheat Feed	G. 18.00 F. 17.60	4.25 4.73	50.00 58.48	9.80	9.87	5.00 4.72	Soybean oil meal, corn meal, wheat bran, wheat flour middlings, wheat standard middlings, ground oat groats, fish meal, alfalfa leaf meal, ground oats, dried skimmed milk, meat scraps, steamed bone meal, calcium carbonate, salt, tested oil.
	G. 20.00 F. 22.24	4.00 4.00	53.00 55.88	8.58	9.30	8.50 7.76	Wheat bran, wheat standard middlings, corn gluten feed, corn gluten meal, linseed oil meal, soybean oil meal, cottonseed meal, ground oats, corn meal, brewers' dried grains, cane molasses, steamed bone meal, calcium carbonate, salt.

Merrimack Pig Ration	G. F.	17.00 17.38	5.00 5.71	50.00 59.69	 7.72	 9.50	7.00 6.01	Brown middlings, bran, red dog, hominy, corn meal, meat scraps, fish meal, salt, calcium carbonate, charcoal, tested oil.
Merrimack Special Mash	G. F.	18.00 19.44	5.00 5.29	50.00 54.39	 10.17	 10.71	8.00 5.32	Soybean oil meal, wheat standard mid- dlings, corn meal, alfalfa leaf meal, wheat bran, ground oats, meat scraps, fish meal, calcium carbonate, salt, tested oil.
Merrimack Stock Feed	G. F.	9.00 10.63	4.00 4.64	60.00 69.34	 5.93	 9.46	11.00 10.61	Cane molasses, soybean oil meal, hominy feed, oat mill feed, ground oats, salt, calcium carbonate, linseed oil meal, ground barley, salt.
Merrimack Super Mash	G. F.	18.00 17.38	5.00 4.89	50.00 58.70	 9.28	 9.75	5.00 5.15	Corn meal, soybean oil meal, ground oat groats, wheat flour middlings, wheat standard middlings, wheat bran, meat scraps, dried skimmed milk, alfalfa leaf meal, steamed bone meal, calcium car- bonate, salt, tested oil, fish meal.
Miller Cereal Mills Omaha Nebr.	G. F.	11.00 12.43	7.00 7.05	65.00 69.91	 3.03	 7.58	4.50 4.61	Corn product.
Mississippi Valley Grain & Feed Co. Muscatine, Iowa	G. F.	41.00 41.20	5.50 5.78	38.00 39.45	 6.71	 6.86	12.00	Cottonseed meal.
George Q. Moon & Co. Binghamton, N. Y.	G. F.	15.00 12.98	4.00 3.32	56.00 70.17	 4.35	 9.18	10.00	Wheat bran and wheat middlings, with ground screenings not exceeding mill run.
Moon's Fresh Ground Wheat Mid- dlings	G. F.	14.00 19.13	2.85 4.78	58.00 61.59	 3.65	 10.85	7.50	Wheat middlings.

Pounds in 100 lbs. of Feeding Stuffs

Pounds in 100 lbs. of Feeding Stuffs						
Brand and Manufacturer	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	Crude Fiber
Mills' Super Feed	G. 9.00	3.00	.....	.....	.....	12.00
	F. 11.17	5.65	70.40	5.50	7.58	12.31
Mills' Wheat Bran	G. 15.00	3.00	54.00	.....	.....	10.00
	F. 18.25	3.91	62.74	4.58	10.52	.....
James F. Morse & Co. Somerville, Mass.						
Morse's No. 1 Meat Scrap	G. 45.00	8.00	.....	.....	.....	.....
	F. 45.18	10.01	.....	35.82	5.80	.....
National Biscuit Co. Toledo Ohio						
Toll's	G. 15.00	3.50	49.00	.....	.....	6.00
	F. 15.37	3.38	67.17	3.18	10.90	.....
National Oats Co. East St. Louis, Ill.						
Red 3 Feeding Oat Meal	G. 14.50	5.00	60.00	.....	.....	3.70
	F. 15.54	5.75	68.87	2.48	7.56	3.59
Neumond Co. St. Louis, Mo.						
Neumond's Grain	G. 28.00	7.00	45.00	.....	.....	15.00
	F. 28.28	8.94	56.49	2.08	4.21	.....
New England Dairies Concord, Vt.						
New England Powder Milk	G. 32.00	0.25	.....	.....	.....	.....
	F. 34.85	0.67	51.39	8.30	4.79	.....

New England Grain Co. Portland, Me. New England Economy 20% Dairy Feed	G. 20.00	4.00	45.00	8.10	....	10.50	Gluten feed, cottonseed meal, wheat bran, wheat middlings, soybean meal, oat by- products, linseed oil meal, dried distillers' grains, corn meal, molasses, salt.
	F. 21.62	3.63	57.99	....	8.66	14.10	
Norris Grain Co. Chicago, Ill. Expeller Process Soybean Oil Meal	G. 41.00	4.50	37.00	....	....	7.00	Oat meal mill by-products (oat middlings, oat shorts, oat hulls).
	F. 44.56	5.31	35.26	....	8.97	....	
Northern Illinois Cereal Co. Lockport, Ill. Re-Ground Oat Feed	G. 3.50	1.25	....	....	....	35.00	No screenings, no scourings, mixture of wheat bran and red dog wheat flour.
	F. 3.72	0.78	80.42	....	7.67	34.27	
Northwestern Consolidated Milling Co. Minneapolis, Minn. Planet Feed	G. 15.00	4.00	....	....	....	8.00	No screenings, no scouring.
	F. 19.18	4.85	59.99	....	10.93	....	
Pure Wheat Bran	G. 14.00	4.00	62.00	....	....	12.00	Wheat flour middlings and ground wheat screenings not exceeding mill run.
	F. 17.69	5.45	60.11	....	9.93	....	
Wheat Flour Middlings	G. 15.00	4.00	....	....	....	6.00	Wheat standard middlings, ground wheat screenings not exceeding mill run.
	F. 19.13	4.78	61.12	....	10.47	....	
Wheat Standard Middlings	G. 15.00	4.00	62.50	....	....	9.50	Dried skim milk, alfalfa meal, pulverized oats, meat scraps, fish meal, gluten meal, corn meal, soybean oil meal, wheat bran, wheat middlings, oyster shell meal, cod liver oil, salt, potassium iodide, vitadine.
	F. 15.41	4.69	65.16	....	10.32	....	
Ogden Grain Co. Utica, N. Y. Pilgrim Cackle 20% Layer-Breeder	G. 20.00	4.00	....	....	....	8.00	
	F. 20.53	4.15	57.33	....	9.75	6.01	

Pounds in 100 lbs. of Feeding Stuff

Brand and Manufacturer	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	Crude Fiber	Certified by manufacturer to contain
Purina Pitting Ration	G. 14.00 P. 13.52	4.00 3.67	 65.31	 6.74	 10.76	7.00 5.74	Linseed oil meal, wheat bran, corn meal or hominy, crushed oats, ground barley, ground wheat, cane molasses, calcium carbonate, salt, bone meal, potassium iodide.
Purina Growing Mash	G. 16.00 P. 16.46	4.00 4.47	55.00 53.13	 10.61	 9.53	8.00 6.74	Alfalfa meal, dried skim milk, meat scraps, fish meal, wheat middlings, wheat bran, pulverized oats, corn meal, oyster shell meal, salt, cod liver oil, potassium iodide.
Purina Special Broiler	G. 18.00 P. 19.74	4.00 4.67	55.00 56.67	 9.39	 10.13	6.00 5.84	Corn meal, gluten meal, soybean oil meal, alfalfa leaf meal, fine ground oats, meat scraps, fish meal, wheat bran, standard middlings, red dog middlings, dried skim milk, cod liver oil, oyster shell meal, salt, potassium iodide.
Purina Special Laying Mash ..	G. 18.00 P. 18.21	4.60 3.79	 58.36	 9.37	 10.27	7.00 6.46	Alfalfa meal, pulverized oats, meat scraps, fish meal, dried skim milk, soybean oil meal, corn meal, ground wheat, wheat bran, wheat middlings (may contain mill run screenings), salt, oyster shell meal, cod liver oil, molasses, potassium iodide.
Omar Mills Omaha, Nebr. Omar Pure Wheat Bran	G. 15.00 P. 18.47	3.00 4.53	30.00 61.65	 6.81	 9.14	11.00	Pure wheat bran.

Park & Pollard Co. Boston, Mass. Bidwell 20% Dairy Ration	G.	20.00	3.50	58.00	...	9.81	...	9.65	12.00	Wheat bran, linseed oil meal, malt sprouts, gluten feed, ground oats, gluten meal, brewers' dried grains, soybean oil meal, ground barley, cottonseed meal, ground grain screenings from wheat, oats, barley, buckwheat and milo, molasses, calcium carbonate, salt.
	F.	20.00	4.03	56.51	...	9.81	...	9.65	11.02	
Bidwell Growing Feed	G.	15.00	3.00	50.00	...	8.71	...	8.98	7.00	Dried buttermilk, corn meal, alfalfa meal, ground oats, ground wheat, meat, bone, gluten meal, ground buckwheat, wheat bran, soybean meal, ground barley, fish meal, calcium carbonate, salt, vitamin tested cod liver oil.
	F.	16.81	3.45	62.05	...	8.71	...	8.98	7.21	
Bidwell Laying Mash	G.	12.00	3.00	50.00	...	8.36	...	9.32	8.00	Dried buttermilk, alfalfa meal, corn meal, ground oats, ground barley, wheat bran (may contain mill run wheat screenings), meat middlings, fish meal, meat and bone meal, linseed oil meal, corn gluten meal, soybean oil meal, calcium carbonate, manganese sulphate, vitamin tested cod liver oil.
	F.	17.03	4.18	61.11	...	8.36	...	9.32	6.55	
Doublex 20% Dairy Ration	G.	20.00	3.50	50.00	...	9.21	...	9.66	11.00	Linseed oil meal, corn gluten feed, brewers' dried grains, ground oats, corn gluten meal, soybean oil meal, corn distillers' grains, ground barley, wheat bran, malt sprouts, cottonseed meal, ground grain screenings from wheat, oats, barley, buckwheat and milo, molasses, calcium carbonate, salt.
	F.	20.79	4.76	55.58	...	9.21	...	9.66	8.97	

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuff						Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	Crude Fiber	
Foster's Dairy Ration	G. 24.00	3.50	55.00	....	....	11.00	Wheat bran, linseed oil meal, soybean oil meal, ground oats, malt sprouts, corn gluten meal, cottonseed meal, corn gluten feed, ground grain screenings from wheat, oats, barley, buckwheat, and milo, molasses, calcium carbonate, salt.
	F. 24.25	4.25	52.82	9.44	9.24	8.92	
Growing Feed	G. 16.00	3.00	50.00	....	....	7.00	Dried buttermilk, alfalfa leaf meal, iodol fish meal, linseed oil meal, meat and bone meal, wheat bran (may contain mill run wheat screenings), wheat middlings, corn gluten meal, calcium carbonate, salt, ground corn, wheat, oats, barley and buckwheat, vitamin tested cod liver oil.
	F. 17.55	4.05	60.05	9.42	8.33	6.57	
Manamar Lay or Bust Dry Mash...	G. 18.00	3.00	50.00	....	....	7.00	Kelp, Pacific coast fish meal and marine sea shells, dried buttermilk, alfalfa leaf meal, corn gluten meal, meat, bone, linseed oil meal, soybean oil meal, wheat bran (may contain mill run wheat screenings), wheat middlings, calcium carbonate, salt, ground corn, wheat, oats, barley, kaffir corn, buckwheat, vitamin tested cod liver oil.
	F. 19.44	4.12	57.73	9.50	9.21	6.64	
Manamar Life Cycle Mash	G. 16.00	3.50	55.00	....	....	7.00	Kelp, Pacific coast fish meal and marine sea shells, meat scraps, wheat bran (may contain mill run screenings), wheat middlings, soybean oil meal, alfalfa leaf meal, corn gluten meal, dried buttermilk, ground yellow corn, oats, wheat, barley, and buckwheat, manganese sulphate, vitamin tested cod liver oil.
	F. 18.08	4.93	58.81	8.92	9.26	6.71	

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuffs					Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	Crude Fiber
Park & Pollard Broiler Finishing Mash	G. 15.00 F. 17.12	4.00 4.23	60.00 59.62	... 8.90	... 10.13	5.00 4.46
Park & Pollard Heavy Wheat Mixed Feed	G. 15.50 F. 18.43	3.35 4.54	55.00 60.83	... 5.22	... 10.98	8.00
Park & Pollard Mares and Fitting Ration	G. 12.00 F. 13.23	3.50 2.65	55.00 66.33	... 6.72	... 11.07	7.00 6.81
Park & Pollard 32% Mixing Ration	G. 32.00 F. 33.80	4.00 5.19	40.00 40.85	... 10.46	... 9.70	9.00 7.51
Park & Pollard Starter and Broiler Mash	G. 18.00 F. 18.95	4.00 4.41	50.00 57.11	... 9.77	... 9.76	6.00 4.89
Park & Pollard Stock Feed	G. 9.00 F. 9.89	4.00 4.38	50.00 69.85	... 7.36	... 8.52	12.00 8.67

Yankee Horse Feed	G. 10.00 F. 11.20	3.50 3.54	60.00 70.19	 4.04	 11.03	9.00 7.18	Crushed barley, cracked corn, crimped oats, wheat bran, molasses, calcium carbonate, salt.
Parrish & Heimbecker Toronto, Canada							
Parrish Pure Wheat Bran	G. 15.00 F. 15.85	3.50 4.37	51.00 64.90	 4.93	 9.95	11.50	
Parrish Wheat Shorts	G. 16.00 F. 17.81	5.00 5.33	52.00 63.35	 4.32	 9.19	8.00	
Pecos Valley Alfalfa Mill Co. Hagerman, N. M.	G. 20.00 F. 18.45	2.50 2.07	58.00 61.46	 11.71	 6.31	18.00 20.98	Alfalfa hay with part of the stem re- moved to concentrate the leaves.
Perkins Oil Co. Memphis, Tenn.							
Golden Rod Brand Cottonseed Meal	G. 41.00 F. 42.56	5.00 6.84	37.00 37.56	 6.97	 6.07	12.00	Pressed cottonseed.
Pillsbury Flour Mills Co. Minneapolis, Minn.							
Pillsbury's Fancy Wheat Mixed Feed	G. 15.00 F. 18.30	4.00 4.93	55.00 62.14	 4.54	 10.09	8.50	Wheat red dog, hard wheat bran with ground cleaned wheat screenings not ex- ceeding mill run.
Pillsbury's Hard Wheat Bran	G. 14.00 F. 16.03	4.00 4.89	63.00 62.98	 6.28	 9.82	12.00	Hard wheat bran, ground cleaned wheat screenings not exceeding mill run.
Pillsbury's Hard Wheat Standard B Middlings	G. 15.00 F. 17.95	4.00 5.11	62.50 61.74	 5.24	 9.96	9.50	Hard wheat standard middlings and ground cleaned wheat screenings not ex- ceeding mill run.
Pillsbury's XX Daisy	G. 16.00 F. 17.91	4.00 4.41	62.00 63.67	 3.17	 10.84	4.00	Wheat red dog.
Pillsbury's XXXX Wheat Bran	G. 14.50 F. 17.60	3.50 4.45	64.00 61.22	 6.77	 9.96	11.00	Wheat bran, ground cleaned wheat screenings not exceeding mill run.

Pounds in 100 lbs. of Feeding Stuffs

Brand and Manufacturer	Protein		Fat	Carbo- hydrates	Ash	Mois- ture	Crude Fiber		Certified by manufacturer to contain
	G.	P.							
Purina Mills St. Louis, Mo. Purina 24% Dairy Feed	G. 20.00		3.50	50.00	...	...	12.00		Linseed meal, soybean oil meal, cotton- seed meal, corn gluten feed, wheat mid- dlings (standard), alfalfa meal, wheat bran, ground grain screenings (from wheat, corn, oats, barley, kafir), molasses, 2% calcium carbonate (limestone), 1% iodized salt.
	P. 23.29		3.89	54.88	9.06	8.88	9.12		
Purina 24% Dairy Feed	G. 24.00		3.50	50.00	...	...	12.00		Linseed meal, soybean oil meal, cotton- seed meal, alfalfa meal, corn gluten feed, wheat middlings (standard), wheat bran, molasses, 2% calcium carbonate, 1% iodized salt.
	P. 24.71		3.86	51.01	9.40	9.02	8.95		
Purina 24% Dairy Feed	G. 18.00		3.50	52.50	...	...	8.50		Meat scrap, soybean oil meal, linseed meal, corn meal, dried buttermilk, cod liver oil, sardine oil, alfalfa meal, wheat middlings (standard), wheat bran, 4% calcium carbonate, 1% salt.
	P. 20.66		5.04	53.50	12.08	8.32	8.07		
Purina Chick Growers	G. 15.00		3.50	...	...	...	7.00		Pur-A-Tene (carotene), cod liver oil, sardine oil, meat scrap, fish meal, soy- bean oil meal, wheat germ, dried butter- milk, dried whey, alfalfa meal, corn meal, beet pulp, wheat middlings (grey), wheat bran, 1½% calcium carbonate (limestone), ½% iodized salt.
	P. 17.57		4.52	61.96	5.94	9.80	6.07		

Purina Chicken Fatena	G.	14.00	4.00	61.50	....	....	7.50	Ground oats, corn meal, ground barley, corn germ meal, wheat flour (second clear), wheat middlings (grey), soybean oil meal, meat scrap, rolled oats, $\frac{1}{2}$ % iodized salt.
	F.	17.16	4.06	65.62	3.79	9.37	6.78	
Purina Cow Chow 20%	G.	20.00	4.00	54.00	....	....	10.00	Soybean oil meal, corn gluten feed, linseed meal, crushed oats, cottonseed meal, distillers' corn dried grains, wheat middlings (standard), wheat bran, corn meal, alfalfa meal, molasses, 1% steamed bone meal, 1% salt, 1% limestone, potassium iodide 0.17 grams per 100 pounds feed.
	F.	21.84	4.59	57.21	6.90	9.46	6.68	
Purina Cow Chow 24%	G.	24.00	4.00	48.00	....	....	11.00	Soybean oil meal, corn gluten feed, linseed meal, cottonseed meal, distillers' corn dried grains, wheat middlings (standard), wheat bran, corn meal, alfalfa meal, molasses, 1% steamed bone meal, 1% salt, 1% limestone, potassium iodide 0.17 grams per 100 pounds of feed.
	F.	25.87	5.14	51.72	7.72	9.55	6.66	
Purina Dry and Freshening Chow.	G.	12.50	2.50	59.00	....	....	14.00	Pur-A-Tene (carotene), soybean oil meal, corn gluten meal, crushed oats, dried beet pulp, corn meal, alfalfa meal, wheat middlings (standard) wheat bran, molasses, 2% calcium carbonate (limestone), 2% iodized salt.
	F.	15.45	2.86	62.20	9.72	9.77	11.28	
Purina Family Flock Chow	G.	18.00	3.50	55.00	....	....	8.00	Carotene, meat scrap, soybean oil meal, alfalfa meal, dried buttermilk, wheat middlings (standard), wheat bran, corn meal, ground barley, corn gluten feed, cod liver oil, sardine oil, 4% calcium carbonate (limestone), $\frac{1}{2}$ % iodized salt.
	F.	19.79	4.34	55.38	11.06	9.43	6.73	

Pounds in 100 lbs. of Feeding Stuffs

Brand and Manufacturer	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	Crude Fiber	Certified by manufacturer to contain
Purina Lay Chow	G. 21.00	4.00	50.00	....	....	8.00	Carotene, cod liver oil, sardine oil, meat scraps, soybean oil meal, fish meal, alfalfa meal, dried buttermilk, dried whey, corn germ meal, wheat middlings (standard), wheat bran, corn meal, ground oats, 1% iodized salt, 3% calcium carbonate.
	F. 22.86	5.62	51.54	11.54	8.44	7.13	
Purina Layena	G. 15.50	3.50	55.00	....	....	8.00	Pur-A-Tene (carotene), cod liver oil, sardine oil, meat scrap, ground oats, fish meal, soybean oil meal, alfalfa meal, dried buttermilk, dried whey, wheat middlings (standard), beet pulp, corn meal, ½% iodized salt, 4% calcium carbonate (limestone).
	F. 17.47	4.93	59.63	8.51	9.46	5.96	
Purina Milk Chow	G. 18.00	4.00	56.00	....	....	10.00	Soybean oil meal, cottonseed meal, distillers' corn dried grains, corn gluten feed, crushed oats, corn meal, wheat middlings (standard), alfalfa meal, wheat bran, molasses, 1% steamed bone meal, 1% salt, 1% limestone, potassium iodide 0.17 grams per 100 pounds of feed.
	F. 21.89	4.36	56.42	7.43	9.90	6.61	
Purina Milk Chow 24%	G. 24.00	3.50	49.00	....	....	11.00	Soybean oil meal, corn gluten feed, cottonseed meal, distillers' corn dried grains, wheat middlings (standard), wheat bran, corn meal, alfalfa meal, molasses, 2% calcium carbonate (limestone), 1% iodized salt.
	F. 26.09	3.95	51.71	8.72	9.53	7.86	

Purina Omolene	G. 10.00 F. 16.37	3.20 3.65	67.00 71.34	 4.32	 10.32	11.00 7.85	Crushed oats, cracked corn, alfalfa leaf meal, linseed meal, molasses, wheat bran, 1% calcium carbonate (limestone), $\frac{1}{2}$ % iodized salt.
Purina Turkey Growing Chow	G. 21.00 F. 23.07	3.50 5.27	51.00 54.47	 8.28	 8.91	8.00 6.31	Pur-A-Tene (carotene), meat scrap, soybean oil meal, alfalfa meal, dried buttermilk, dried whey, corn meal, wheat middlings (standard), wheat bran, $\frac{1}{2}$ % iodized salt.
Purity Oats Co. Keokuk, Iowa Chief Feeding Oat Meal	G. 14.00 F. 14.65	5.30 5.74	60.00 70.80	 2.18	 7.23	3.75 4.41	Oat middlings, oat groats.
Quaker Oats Co. Chicago, Ill. Bell Cow Wheat Bran	G. 15.00 F. 16.90	3.50 5.16	67.00 61.38	 5.30	 11.26	10.00	Wheat bran.
Big Egg Laying Mash	G. 18.00 F. 19.30	4.00 4.47	58.00 59.04	 6.81	 10.38	8.00 7.73	Hominy feed, yellow hominy feed, wheat bran, wheat standard middlings, ground oats, fish meal, soybean oil meal, meat scraps, sardine oil, dried skimmed milk, molasses, alfalfa meal, $\frac{3}{4}$ % salt.
Ful-O-Pep Chick Starter	G. 17.00 F. 18.69	4.50 6.23	57.00 61.69	 6.46	 6.93	7.00 6.55	Oat meal, yellow hominy feed, wheat bran, wheat standard middlings, fish meal, cod liver meal, meat scraps, fortified sardine oil, dried whey, dried buttermilk, molasses, alfalfa meal, $\frac{3}{4}$ % salt.
Ful-O-Pep Developer	G. 15.00 F. 15.15	4.50 4.87	59.00 64.34	 5.55	 9.49	9.00 7.69	Oat meal, yellow hominy feed, wheat bran, wheat standard middlings, barley meal, ground oats, fish meal, cod liver meal, meat scraps, fortified sardine oil, dried whey, dried buttermilk, molasses, alfalfa meal, dehydrated cereal grass, $\frac{3}{4}$ % salt.

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuff						Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	Crude Fiber	
Pul-O-Pep Egg Breeder Mash	G. 30.00	4.50	53.00	...	...	8.00	Oat meal, hominy feed, yellow hominy feed, wheat bran, wheat standard middlings, barley meal, fish meal, cod liver meal, meat scrap, fortified sardine oil, dried whey, dried buttermilk, molasses, alfalfa meal, dehydrated cereal grass, $\frac{3}{4}$ % salt.
	F. 29.49	5.99	57.07	8.84	7.61	5.74	
Pul-O-Pep Growing Mash	G. 19.00	5.00	54.00	...	...	7.00	Oat meal, yellow hominy feed, wheat bran, wheat standard middlings, barley meal, fish meal, cod liver meal, meat scrap, fortified sardine oil, dried whey, dried buttermilk, molasses, alfalfa meal, $\frac{3}{4}$ % salt.
	F. 20.27	5.52	58.17	8.36	7.68	5.77	
Pulverized Oat Feed	G. 4.00	1.50	79.00	...	...	32.00	Oat mill feed (oat hulls, oat shorts, oat middlings).
	F. 5.91	1.63	80.25	6.12	6.09	29.22	
Pulverized Whole Oats	G. 12.00	3.50	67.00	...	...	12.00	Pulverized whole sound sweet oats.
	F. 12.78	4.22	72.20	3.38	7.42	12.11	
Breaker 167 Dairy Ration	G. 16.00	3.00	59.50	...	...	13.50	Hominy feed, yellow hominy feed, barley feed, cottonseed meal, soybean oil meal, corn gluten feed, wheat bran, wheat standard middlings, oat mill feed (oat hulls, oat shorts, oat middlings), $\frac{3}{4}$ % salt, 1 % iodized ground limestone, 1 % bone meal, molasses.
	F. 16.11	3.36	62.89	9.04	8.60	10.66	

Quaker 20% Protein Dairy Ration..	G.	20.00	4.00	57.00	....	7.88	....	12.00	Hominy feed, yellow hominy feed, barley feed, corn distillers' grains, cottonseed meal, corn gluten feed, soybean oil meal, wheat bran, wheat standard middlings, oat mill feed (oat hulls, oat shorts, oat middlings), $\frac{3}{4}$ % salt, 1% iodized ground limestone, 1% bone meal, molasses.
	F.	20.40	4.00	60.05	....	7.88	7.67	11.35	
Quaker Sugared Schumacher Feed	G.	10.00	3.00	67.00	....	6.79	....	12.00	Ground corn, hominy feed, yellow hominy feed, barley meal, cottonseed meal, soybean oil meal, low grade wheat flour, wheat standard middlings, oat mill feed (oat hulls, oat shorts, oat middlings), $\frac{3}{4}$ % salt, 1% iodized ground limestone, 1% bone meal, molasses.
	F.	11.60	3.51	70.18	....	6.79	7.92	10.36	
Schumacher Calf Meal	G.	18.00	5.00	59.00	....	5.64	....	5.00	Oat meal, hominy feed, yellow hominy feed, ground flaxseed, ground puffed wheat, soybean oil meal, linseed meal, alfalfa meal, dried skimmed milk, boiled and sterilized blood flour, fortified sardine oil, $\frac{1}{2}$ % bicarbonate of soda, $\frac{3}{4}$ % salt, 1% iodized ground limestone, 1% bone meal, molasses.
	F.	21.32	6.24	58.26	....	5.64	8.54	4.91	
Sugared Vim Oat Mill Feed	G.	4.50	1.25	80.00	....	6.54	....	27.50	Oat mill feed (oat hulls, oat shorts, oat middlings), molasses.
	F.	5.21	1.37	80.32	....	6.54	6.56	26.15	
Ralston Purina Co. St. Johnsbury, Vt. Brooks' Fancy Wheat Mixed Feed.	G.	15.00	3.50	63.00	....	5.35	....	8.00	Wheat bran, wheat middlings, red dog flour.
	F.	16.72	4.47	63.81	....	5.35	9.65	....	
John Reardon & Sons Cambridge, Mass. Register Brand Cod and Haddock Fish Meal	G.	62.00	3.00	.....	....	25.10	....	1.00	
	F.	62.08	4.08	.....	....	25.10	8.04	....	

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	Crude Fiber	
Rodney Milling Co. Kansas City, Kans.							
Heart of America Pure Wheat Bran	G. 16.50 F. 17.51	3.50 4.37	60.00 60.61	6.57	10.94	10.00	Wheat bran not exceeding mill run screenings.
Russell-Miller Milling Co. Minneapolis, Minn.							
Occident Bran	G. 14.00 F. 18.56	4.00 4.76	61.50 59.46	6.16	11.06	11.50	Hard wheat.
Occident Flour Middlings	G. 15.50 F. 21.83	4.00 5.17	60.00 58.89	3.50	10.61	5.00	
Occident Mixed Feed	G. 15.00 F. 18.43	4.50 4.96	61.50 61.90	5.29	9.42	9.50	Hard wheat, mill run bran, middlings and red dog.
Occident Standard Middlings	G. 15.00 F. 18.87	4.00 5.60	59.50 60.62	5.34	9.57	9.50	Hard wheat.
St. Albans Grain Co. St. Albans, Vt.							
Champlain Valley-20-Daily Ration	G. 20.66 F. 21.45	4.60 3.90	52.00 57.11	7.30	10.24	8.50 6.69	Old process linseed meal, soybean oil meal, cottonseed meal, corn gluten meal, corn gluten feed, brewers' dried grains, yellow corn meal, hominy feed, ground oats, ground barley, wheat bran, wheat standard middlings, cane molasses, cal- cium carbonate, salt.
Champlain Valley-24-Dairy Ration	G. 24.00 F. 24.25	4.00 4.03	50.00 54.25	7.93	9.54	9.00 7.00	Old process linseed meal, soybean oil meal, cottonseed meal, corn gluten meal, corn gluten feed, brewers' dried grains, yellow corn meal, hominy feed, ground oats, ground barley, wheat bran, wheat standard middlings, cane molasses, cal- cium carbonate, salt.

Corn Distillers' Dried Grains	G.	28.00	7.00	48.00	...	...	14.00	Fortified cod liver oil, old process linseed meal, soybean oil meal, yellow corn meal, hominy feed, crimped oats, ground oats, ground barley, wheat bran, wheat standard middlings, cane molasses, calcium carbonate, salt.
	F.	28.54	8.14	53.24	2.06	8.02	12.41	
Hygrade 12 Fitting Ration Sweetened	G.	12.00	4.00	65.00	...	...	8.00	Old process linseed meal, soybean oil meal, cottonseed meal, corn gluten meal, corn gluten feed, brewers' dried grains, yellow corn meal, hominy feed, ground oats, ground barley, wheat bran, wheat standard middlings, cane molasses, calcium carbonate, salt.
	F.	14.41	4.30	63.76	7.53	10.00	7.06	
Hygrade 20 Milk Ration Sweetened	G.	20.00	4.00	54.00	...	...	8.00	Old process linseed meal, soybean oil meal, cottonseed meal, corn gluten meal, corn gluten feed, brewers' dried grains, yellow corn meal, hominy feed, ground oats, ground barley, wheat bran, wheat standard middlings, cane molasses, calcium carbonate, salt.
	F.	22.68	4.64	55.22	8.56	8.90	7.44	
Utility 20 Dairy Ration	G.	20.00	3.50	56.00	...	...	12.00	Old process linseed meal, soybean oil meal, cottonseed meal, corn gluten feed, brewers' dried grains, yellow corn meal, hominy feed, ground oats, ground barley, oat mill feed, oat hulls, oat shorts, oat middlings, wheat bran, wheat standard middlings, cane molasses, calcium carbonate, salt.
	F.	21.32	3.70	58.30	8.01	8.67	10.35	
Wirthmore Baby Chick Starter	G.	19.00	4.00	58.00	...	...	6.00	Fortified cod liver oil, dried skimmed milk, dried whey, meat scraps, fish meal, soybean oil meal, corn gluten meal, alfalfa leaf meal, yellow corn meal, wheat bran, wheat standard middlings, ground oat groats, pulverized oats, calcium carbonate, manganese sulphate, salt.
	F.	21.19	4.47	54.74	9.47	10.13	5.37	

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
	Protein		Fat	Carbo- hydrates	Ash	Mois- ture	Crude Fiber
Wirthmore 25 Balanced Ration Sweetened	G. 25.00		4.50	55.00	8.13	8.64	8.50
	F. 26.09		4.50	52.64			7.68
Wirthmore Battery Ration	G. 15.00		4.00	60.00	....	....	6.00
	F. 17.99		4.56	60.51	7.20	9.74	4.44
Wirthmore Complete Chick Starter and Broiler Ration	G. 17.50		4.00	58.00	....	....	5.50
	F. 19.70		4.70	57.21	8.72	9.67	5.49
Wirthmore Complete Egg Ration..	G. 15.00		4.00	60.00	....	....	6.00
	F. 16.97		4.69	62.06	7.30	9.88	5.44

Old process linseed meal, soybean oil meal, cottonseed meal, corn gluten meal, corn gluten feed, corn distillers' dried grains, yellow corn meal, ground oats, ground barley, wheat bran, wheat standard middlings, cane molasses, steamed bone meal, salt.

Fortified cod liver oil, dried skimmed milk, dried whey, liver meal, meat scraps, fish meal, dehydrated alfalfa meal, yellow corn meal, ground wheat, wheat bran, wheat standard middlings, ground oats, ground barley, calcium carbonate, salt.

Fortified cod liver oil, dried skimmed milk, dried whey, meat scraps, fish meal, soybean oil meal, corn gluten meal, alfalfa leaf meal, yellow corn meal, wheat bran, wheat standard middlings, ground oat groats, calcium carbonate, manganese sulphate, salt.

Fortified cod liver oil, dried skimmed milk, dried whey, meat scraps, fish meal, soybean oil meal, corn gluten meal, dehydrated alfalfa meal, yellow corn meal, ground wheat, wheat bran, wheat standard middlings, ground oats, ground barley, calcium carbonate, salt.

Wirthmore Complete Laying Ration	G.	15.00	4.00	60.00	...	8.04	...	5.00	Fortified cod liver oil, dried skimmed milk, dried whey, liver meal, meat scraps, fish meal, dehydrated alfalfa meal, yellow corn meal, ground wheat, wheat bran, wheat standard middlings, ground oats, oat groats, calcium carbonate, salt.
	P.	16.29	4.32	61.15	...	8.04	10.20	4.52	
Wirthmore 16 Dairy Ration Sweetened	G.	16.00	4.00	60.00	...	7.33	...	8.00	Old process linseed meal, soybean oil meal, cottonseed meal, corn gluten meal, corn gluten feed, corn distillers' dried grains, yellow corn meal, hominy feed, ground oats, ground barley, wheat bran, wheat standard middlings, cane molasses, steamed bone meal, calcium carbonate, salt.
	P.	17.51	4.00	61.15	...	7.33	10.01	6.00	
Wirthmore 20 Dairy Ration Sweetened	G.	20.00	4.50	59.00	...	6.65	...	8.00	Old process linseed meal, soybean oil meal, cottonseed meal, corn gluten meal, corn gluten feed, corn distillers' dried grains, yellow corn meal, ground oats, ground barley, wheat bran, wheat standard middlings, cane molasses, steamed bone meal, salt.
	P.	21.98	4.74	57.75	...	6.65	8.88	7.57	
Wirthmore 14 Fitting Ration	G.	14.00	4.00	65.00	...	6.80	...	7.00	Fortified cod liver oil, old process linseed meal, yellow corn meal, hominy feed, crimped oats, ground oats, ground barley, wheat bran, wheat standard middlings, cane molasses, fish meal, steamed bone meal, salt.
	P.	16.55	4.32	62.29	...	6.80	10.04	6.51	
Wirthmore Fodder Greens	G.	10.00	3.00	60.00	...	...	...	15.00	Dried beet pulp, dried citrus pulp, choice chopped alfalfa, brewers' dried grains, wheat bran, hominy feed, cane molasses, calcium carbonate, salt.
	P.	12.17	2.83	66.37	...	10.49	8.14	11.84	

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	Crude Fiber	
Wirthmore Laying Mash Contain- ing Cod Liver Oil	G. 20.00	4.00	50.00	.....	.....	7.00	Fortified cod liver oil, dried skimmed milk, dried whey, meat scraps, fish meal, soybean oil meal, corn gluten meal, dehydrated alfalfa meal, yellow corn meal, ground wheat, wheat bran, wheat standard middlings, ground oats, ground barley, calcium carbonate, salt.
	P. 21.54	4.82	53.59	10.86	9.19	5.02	
Wirthmore 32% Ration	G. 32.00	4.00	45.00	.....	.....	8.00	Old process linseed meal, soybean oil meal, cottonseed meal, corn gluten meal, corn gluten feed, corn distillers' dried grains, wheat bran, cane molasses, steamed bone meal, calcium carbonate, salt.
	P. 31.46	4.32	46.84	9.08	8.30	7.41	
Wirthmore Record Ration	G. 20.00	4.50	55.00	.....	.....	8.50	Old process linseed meal, soybean oil meal, corn gluten meal, corn distillers' dried grains, yellow corn meal, hominy feed, crimped oats, ground oats, ground barley, dried beet pulp, wheat bran, wheat standard middlings, cane molasses, fish meal, steamed bone meal, salt.
	P. 20.41	4.32	59.14	6.71	9.39	6.79	
Wirthmore Stock Feed	G. 9.00	4.00	70.00	.....	.....	9.50	Ground barley, ground oats, hominy feed, ground corn, oat meal mill by-products (oat middlings, oat shorts, oat hulls), cane molasses, edible bone meal, calcium carbonate, dairy salt.
	P. 9.59	5.06	68.90	7.34	9.11	7.70	
Wirthmore Wheat Feed	G. 15.00	3.75	50.00	.....	.....	8.00	Wheat bran, wheat red dog flour.
	P. 18.17	4.51	62.33	4.91	10.08	.....	

Schenley Products Co. New York, N. Y. Schenley Corn Distillers' Dried Grains	G.	28.00	8.00	48.00	....	....	13.00	Made principally from corn.
	F.	28.06	9.55	52.84	2.05	7.50	....	
Joseph Schlitz Brewing Co. Milwaukee, Wisc. Schlitz Purity Brewers' Dried Grains	G.	24.00	5.00	....	....	....	20.00	
	F.	28.37	6.13	55.93	4.01	5.56	....	
Sherwin-Williams Co. Cleveland, Ohio Sherwin-Williams Pure Old Pro- cess 34% Linseed Meal	G.	34.00	4.50	42.00	....	....	9.00	
	F.	34.15	6.95	44.58	6.13	8.19	....	
South End Hay and Grain Manchester, N. H. 20% Dairy Ration	G.	20.00	4.00	53.00	....	....	8.00	Wheat bran, ground oats, yellow corn meal, cottonseed meal, brewers' grain, gluten meal, gluten feed, oil meal, molasses, dicalcium phosphate, salt.
	F.	18.69	3.89	58.68	9.53	9.21	7.83	
Feed Board Egg Mash	G.	17.00	4.00	53.00	....	....	6.50	Corn meal, wheat bran, wheat flour mid- dlings, ground oats, fish meal, alfalfa leaf meal, dried skim milk, oyster shell meal, cod liver oil, beef scraps, dicalcium phosphate, salt.
	F.	18.30	4.21	56.43	11.15	9.91	6.44	
Starting and Growing Broiler Rations	G.	17.00	4.00	53.00	....	....	5.00	Corn meal, wheat bran, dried skim milk, wheat flour middlings, ground oats, beef scraps, fish meal, oyster shell meal, cod liver oil, alfalfa leaf meal, edible bone meal, salt.
	F.	17.38	4.46	58.62	9.50	10.04	6.50	

Pounds in 100 lbs. of Feeding Stuffs

Brand and Manufacturer	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	Crude Fiber	Certified by manufacturer to contain
F. B. Spaulding Co., Lancaster, N. H.							
Steaulding's Peary Feed	G. 20.00 F. 23.46	4.00 4.17	55.00 56.85	 7.36	 8.16	9.50 7.57	Linseed and/or soybean oil meal, 41% cottonseed meal, gluten feed, corn meal and/or hominy feed, wheat bran, rye distillers' and/or rye feed, salt, calcium carbonate, molasses, wheat bran contains mill run screenings.
Spencer Kellogg & Sons Buffalo, N. Y.							
Kellogg's 32% Old Process Linseed Meal	G. 32.00 F. 35.77	4.50 4.86	43.00 44.55	 5.16	 9.66	9.00	Ground flaxseed oil cake.
Kellogg's 41% Old Process Soybean Oil Meal	G. 41.00 F. 45.00	4.50 4.63	36.00 34.55	 5.92	 9.90	7.00	Ground soybean oil cake.
A. E. Staley Mfg. Co. Decatur, Ill.							
Staley's Corn Gluten Feed	G. 25.00 F. 30.16	1.50 1.69	 52.32	 7.07	 8.76	8.00 ...	Corn gluten feed.
Stegmaier Brewing Co., Wilkes-Barre, Pa.							
Topol Brewery Grain	G. 25.00 F. 26.14	5.00 5.85	 57.68	 3.52	 6.81	16.00	
David Stott Flour Mills Detroit, Mich.							
Wheat (Spring Wheat)	G. 14.50 F. 17.60	4.00 4.15	60.50 61.73	 6.10	 10.42	12.50	Wheat bran with ground cleaned wheat screenings not exceeding mill run.
Pennant Wheat Middlings and Wheat Screenings							
	G. 15.00 F. 18.87	4.00 4.58	63.70 61.48	 5.10	 9.97	9.00	Wheat middlings ground clean wheat screenings not exceeding mill run.

Stott's Fine Flour Middlings	G. F.	14.50 14.58	3.50 3.34	65.40 68.11	2.74	 11.23	6.00	Fine wheat middlings with ground clean wheat screenings not exceeding mill run.
Stratton & Co. Concord, N. H.								
Standard Wheat Middlings	G. F.	14.00 14.05	4.00 4.13	64.00 66.04	4.22	 11.56	9.00	With ground screenings not exceeding mill run.
Stratton's White Clover 20% Dairy Feed	G. F.	20.00 20.44	4.00 4.00	50.00 58.08	 7.94	 9.34	10.00 11.25	Cottonseed, oat feed, hominy, wheat mash, gluten feed, soybean meal, mo- lasses, distillers' grains, ground barley, calcium carbonate, salt.
Stratton & Co's. Fancy Fine White Middlings	G. F.	14.00 14.89	4.26 4.03	66.00 65.91	 3.60	 11.57	6.50 6.10	
Stratton & Co's. Fancy Wheat Bran	G. F.	14.00 14.04	4.00 4.31	64.00 65.09	 5.05	 11.51	11.00 ...	
Stratton & Co's. Wheat Mixed Feed	G. F.	13.50 14.49	4.11 4.34	63.00 65.72	 4.91	 10.54	7.13 7.06	Screenings not exceeding mill run.
Stratton & Co's. 24 Stock Feed	G. F.	7.50 7.62	2.83 2.95	66.00 73.92	 3.14	 12.37	14.43 10.51	Oat mill feed, oat middlings, corn bran, cracked corn siftings, yellow corn meal.
Sunshine Feed Store Manchester, N. H.								
Wayne Local Mix Mash With Sar- dine Oil	G. F.	15.00 15.67	4.00 4.76	53.00 63.99	 5.47	 10.11	8.00 5.63	Dried buttermilk, dried skim milk, animal liver meal, meat scraps, fish meal, wheat standard middlings, wheat bran, corn gluten feed, corn gluten meal, dehydrated alfalfa meal, soybean oil meal, corn meal, ground oats, 1% ground limestone, 0.05% iron oxide, 0.0007% potassium iodide, 0.2% salt, sardine oil, 0.05% manganese sul- phate equivalent to 123 p. p. m. of manganese. Found 105 p. p. m. Mn.

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuff					Crude Fiber	Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture		
Tennant & Hoyt Co. Lake City, Minn.							
Golden Leaf Meal	G. 16.00 P. 16.20	4.00 4.85	59.00 62.32	7.09	9.54	11.00	
Golden Leaf Wheat Middlings	G. 17.00 P. 18.08	5.00 4.89	56.00 61.88	7.84	10.31	8.00	With ground screenings not exceeding mill run.
Toledo Soybean Products Co. Toledo, Ohio							
Super-Plus Soybean Oil Meal	G. 41.00 P. 44.48	4.50 4.81	36.00 35.75	6.20	8.76	7.00 5.52	
Jacob Trinley & Sons Linfield, Pa.	G. 16.00 P. 17.69	3.50 4.93	55.00 60.18	7.22	9.38	7.00 7.75	Corn meal, ground oats, soybean oil meal, wheat bran, wheat middlings, dried buttermilk, meat scrap, alfalfa meal, cane molasses, bone meal, charcoal, salt, concentrated cod liver oil.
Favorite Growing Mash							
Libberson & Stock Feed							
	G. 9.00 P. 10.94	2.50 3.45	65.00 70.67	6.86	8.68	14.00 15.61	Soybean meal, cottonseed meal, corn meal, ground oats, oatmeal by-products, molasses, salt.
Reel Calf Meal	G. 21.00 P. 21.27	4.00 3.61	55.00 56.49	8.94	9.69	6.00 5.32	Oat meal, dried skim milk, alfalfa meal, linseed oil meal, wheat middlings, corn gluten meal, corn meal, bone meal, cane molasses, salt, soybean oil meal.
Real 24% Dairy Feed	G. 21.00 P. 26.62	4.30 3.92	50.00 52.09	6.33	10.04	12.00 7.79	Alfalfa meal, corn feed meal, cane molasses, linseed oil meal, cottonseed meal, soybean oil meal, wheat bran, wheat middlings, corn gluten feed, corn gluten meal, bone meal, salt.

Real Hog Feed	G. F.	18.00 21.98	4.00 4.08	55.00 53.79	11.19	8.96	10.00 8.81	Corn meal, ground oats, wheat middlings, corn gluten feed, linseed oil meal, alfalfa meal, bone meal, soybean oil meal, tankage, cane molasses, charcoal, salt.
Real Starter and Developer Mash...	G. F.	16.00 18.56	4.00 5.07	55.00 58.47	7.88	10.02	7.00 6.07	Corn meal, alfalfa meal, bone meal, dried buttermilk, fish meal, meat meal, wheat bran, oat meal, wheat middlings, cane molasses, concentrated cod liver oil, salt, soybean oil meal.
Supreme 85 Horse Feed	G. F.	9.00 10.37	3.00 3.53	65.00 71.04	3.72	11.34	11.00 7.98	Cracked corn, crushed oats, alfalfa meal, cane molasses, $\frac{1}{2}$ % salt.
Trinley's 16 Dairy Feed	G. F.	16.00 16.11	3.00 3.16	55.00 63.38	6.72	10.63	11.50 8.11	Linseed oil meal, corn gluten feed, cottonseed meal, wheat bran, malt sprouts, soybean oil meal, ground grain screenings from wheat, cane molasses, distillers' grains, bone meal, ground oats, salt, calcium carbonate.
Trinley's 20% Dairy Feed	G. F.	20.00 20.57	3.50 3.24	55.00 59.34	6.90	9.35	11.00 7.10	Corn gluten feed, cottonseed meal, soybean oil meal, corn meal, linseed oil meal, distillers' grains, malt sprouts, wheat bran, ground oats, ground grain screenings from wheat, cane molasses, bone meal, salt, calcium carbonate.
Trinley's 24 Dairy Feed	G. F.	24.00 25.17	3.50 4.12	50.00 54.13	7.04	9.54	11.00 7.70	Cottonseed meal, linseed oil meal, malt sprouts, corn gluten meal, ground grain screenings from wheat, wheat bran, soybean oil meal, distillers' grains, cane molasses, bone meal, salt, calcium carbonate.

Pounds in 100 lbs. of Feeding Stuffs

Brand and Manufacturer	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	Crude Fiber	Certified by manufacturer to contain
United Farmers' Cooperative Creamery Assn. Morrisville, Vt.							
Dried Skim Milk	G. 32.00 F. 37.19	0.50 0.69	49.24	8.02	4.86	....	
George Urban Milling Co. Buffalo, N. Y.							
Wheat Bran	G. 13.00 F. 17.60	3.00 4.60	49.00 61.16	6.66	9.98	12.00	Wheat bran with ground screenings not exceeding mill run.
Valley City Milling Co. Portland, Mich							
Rowena Mixed Feed	G. 14.00 F. 14.10	4.10 4.41	63.60 66.90	4.89	9.70	8.20	With ground wheat screenings not ex- ceeding mill run.
Rowena Pure Wheat Bran	G. 13.75 F. 13.40	4.00 4.19	62.20 67.40	5.58	9.43	12.30	
Ward Dry Milk Co. Chicago, Ill.							
Ward's Pure Dried Skim Milk	G. 22.00 F. 34.54	1.00 1.00	40.00 51.16	8.41	4.89	.... ....	Made from liquid skim milk.
Washburn Crosby Co. Buffalo, N. Y.							
Arlington Wheat Second Clear	G. 11.00 F. 16.05	3.00 3.00	60.00 67.30	1.59	12.08	1.50	Wheat by-product.
Sumner South Wheat Bran							
	G. 14.50 F. 15.28	3.50 4.28	65.00 63.27	7.68	10.69	10.00	Wheat bran only.
Washburn's Gold Medal Fancy Wheat Mixed Feed	G. 15.00 F. 16.90	3.50 4.61	65.50 63.67	4.52	10.30	7.50	Hard wheat bran, mill run cleaned ground wheat screenings, low grade wheat flour.

Washburn's Gold Medal Standard Middlings	G. F.	15.00 16.59	4.00 4.56	62.50 64.42	 4.59	 9.84	9.50	Hard wheat standard middlings, mill run cleaned ground wheat screenings.
Washburn's Gold Medal Wheat Bran	G. F.	15.00 16.24	3.50 4.55	61.00 62.70	 7.20	 9.31	11.00	Wheat bran only.
Washburn's Gold Medal Wheat Bran	G. F.	14.00 15.76	3.50 4.52	63.00 62.50	 6.56	 10.66	12.00	Hard wheat bran, mill run cleaned ground wheat screenings.
Washburn's Gold Medal Wheat Flour Middlings	G. F.	16.00 16.72	4.00 4.51	62.00 64.30	 3.41	 11.06	6.00	Hard wheat flour middlings, cleaned ground wheat screenings.
Wayne County Grangers Feed Corp.								
Clyde 20% Dairy Feed	G. F.	20.00 22.28	4.00 3.52	 56.64	 7.42	 10.14	10.00 8.34	260 lbs. corn gluten feed, 380 lbs. corn distillers' grains, 100 lbs. old process linseed oil meal, 50 lbs. brewers' grains, 200 lbs. corn meal or hominy feed, 150 lbs. ground oats, 100 lbs. cottonseed meal, 240 lbs. wheat bran (may contain screenings), 100 lbs. malt sprouts, 200 lbs. soybean oil meal, 20 lbs. ground limestone, 160 lbs. cane molasses, 20 lbs. salt, 20 lbs. steamed bone meal.
Cornell Mash	G. F.	18.00 20.78	4.00 5.69	 53.92	 10.54	 9.07	10.00 7.03	300 lbs. wheat bran, 400 lbs. wheat middlings, 400 lbs. corn meal, 400 lbs. ground oats, 400 lbs. meat scraps, 50 lbs. skim milk, 50 lbs. dried whey, 10 lbs. cod liver oil, 10 lbs. salt.

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuff						Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	Crude Fiber	
Economy 20% Dairy Feed	G. 20.00 F. 21.36	4.00 3.75	 58.65	 6.64	 9.60	12.00 9.06	Choice cottonseed meal, dried brewers' grains, malt sprouts, soybean oil meal, pulverized wheat screenings, corn meal or hominy feed, corn gluten feed, (oat distillers' dried grains, oat mill feed (oat hulls, oat shorts, oat middlings), wheat bran, molasses, 1% salt, 1% calcium carbonate.
Galen 24% Dairy Feed	G. 24.00 F. 24.73	4.00 4.48	 55.35	 6.43	 9.01	10.00 9.87	210 lbs. corn gluten feed, 300 lbs. corn distillers', 100 lbs. old process linseed oil meal, 50 lbs. brewers' grains, 200 lbs. choice cottonseed meal, 200 lbs. wheat bran (may contain screenings), 300 lbs. soybean oil meal, 160 lbs. hominy feed or corn meal, 100 lbs. ground oats, 160 lbs. cane molasses, 100 lbs. malt sprouts, 20 lbs. steamed bone meal, 20 lbs. ground limestone, 20 lbs. salt.
Hi-Yan-Ka- Farms 20% Dairy Feed	G. 20.00 F. 23.38	4.00 4.69	 56.76	 6.10	 9.07	8.50 8.58	200 lbs. soybean meal, 250 lbs. corn distillers' grains, 300 lbs. corn gluten feed, 100 lbs. choice cottonseed meal, 100 lbs. old process linseed oil meal, 300 lbs. wheat bran (may contain screenings), 200 lbs. beet pulp, 135 lbs. ground oats, 100 lbs. brewers' dried grains, 250 lbs. hominy feed or corn meal, minerals (iodine, salt, bone charcoal, iron sulphate, calcium carbonate) 65 lbs.

Milk Producer 24% Dairy Feed	G.	24.00	4.00	....	....	....	....	10.00	420 lbs. corn distillers' grains, 240 lbs. soybean oil meal, 145 lbs. choice cottonseed meal, 140 lbs. old process linseed oil meal, 200 lbs. corn gluten feed, 50 lbs. corn gluten meal, 160 lbs. corn meal or hominy feed, 200 lbs. wheat bran (may contain screenings), 100 lbs. whole ground wheat, 40 lbs. malt sprouts, 100 lbs. ground oats, 140 lbs. cane molasses, 65 lbs. minerals (iodine, salt, bone charcoal, iron sulphate, calcium carbonate).
	F.	25.04	4.43	54.14	6.75	9.64	9.76	9.76	
Satisfaction Laying Mash with Buttermilk and Cod Liver Oil...	G.	17.00	4.00	....	....	....	....	8.00	Meat scrap, bone meal, fish meal, butter-milk, ground corn, wheat, oats, barley, red dog wheat flour, wheat bran, wheat middlings with mill run of screenings, corn gluten feed, alfalfa meal, 1/4% salt, 1% tricalcium phosphate, calcium carbonate, cod liver oil U. S. P., soybean oil meal.
	F.	18.34	4.50	57.44	9.84	9.88	6.09	6.09	
Superior 20% Beet Pulp Feed	G.	20.00	4.00	....	....	....	....	8.50	200 lbs. soybean meal, 250 lbs. corn distillers' grains, 300 lbs. corn gluten feed, 100 lbs. choice cottonseed meal, 100 lbs. old process linseed oil meal, 300 lbs. wheat bran (may contain screenings), 200 lbs. beet pulp, 135 lbs. ground oats, 100 lbs. dried brewers' grains, 250 lbs. hominy feed or corn meal, 65 lbs. minerals (iodized salt, bone charcoal, iron sulphate, calcium carbonate).
	F.	22.56	4.38	57.25	5.79	9.02	8.86	8.86	
Superior Calf Grower	G.	15.00	4.00	50.00	....	....	....	8.00	Wheat bran, wheat flour middlings, corn germ meal, pulverized oats, corn gluten meal, soybean oil meal, linseed oil meal, locust bean meal, Nopco XX cod liver oil, calcium carbonate, steamed bone meal, iodine, salt, iron sulphate.
	F.	15.85	4.33	61.16	9.95	8.71	6.45	6.45	

Pounds in 100 lbs. of Feeding Stuffs

Brand and Manufacturer

Certified by manufacturer to contain

	Protein		Fat	Carbo- hydrates	Ash	Mois- ture	Crude Fiber	
	G.	F.					G.	F.
Superior Chick Starter with But- ter and Cod Liver Oil	G. 17.50 F. 19.00		4.00 4.10	50.00 51.13	 9.40	 9.77	7.00 5.12	140 lbs. meat scrap, 80 lbs. fish meal, 40 lbs. blood flour, 160 lbs. oat meal, 100 lbs. pulverized oats heavy, 480 lbs. corn meal, 200 lbs. corn hominy, 200 lbs. wheat bran (not exceeding mill run of screenings), 210 lbs. wheat flour middlings, 80 lbs. soybean oil meal, 100 lbs. alfalfa leaf meal, 70 lbs. skin or butter-milk, 70 lbs. dried whey, 10 lbs. cod liver oil fortified, 60 lbs. minerals (iodine, salt, bone charcoal, iron sulphate, manganese sulphate, calcium carbonate).
Superior 20% Dairy Feed Open Formula	G. 20.00 F. 20.88		4.00 3.86	 59.38	 6.12	 9.76	10.00 8.80	170 lbs. choice cottonseed meal, 200 lbs. old process linseed oil meal, 200 lbs. corn gluten feed, 200 lbs. wheat bran (may contain screenings), 260 lbs. whole ground wheat, 100 lbs. ground oats, 200 lbs. corn meal, 265 lbs. corn distillers' grains, 40 lbs. brewers' grains, 50 lbs. malt sprouts, 130 lbs. crude molasses, 100 lbs. soybean oil meal, 65 lbs. minerals (iodized salt, bone charcoal, iron sulphate, calcium carbonate).
Superior 24% Dairy Feed Open Formula	G. 24.00 F. 25.13		4.00 3.84	 54.25	 6.92	 9.86	10.00 8.36	420 lbs. corn distillers' grains, 240 lbs. soybean oil meal, 145 lbs. choice cottonseed meal, 140 lbs. old process linseed oil meal, 200 lbs. corn gluten feed, 50 lbs. corn gluten meal, 160 lbs. corn meal or hominy feed, 200 lbs. wheat bran (may contain screenings), 100 lbs. whole ground wheat, 40 lbs. malt sprouts, 100 lbs. ground oats, 140 lbs. crude molasses, 65 lbs. minerals (iodine, salt, bone charcoal, iron sulphate, calcium carbonate).

Superior Fitting Ration	G. F.	10.00 13.18	4.00 3.82	67.49 67.49	5.18 5.18	10.33 10.33	9.00 7.24	Old process linseed oil meal, corn hominy feed, wheat bran, (may contain screenings), ground whole wheat, molasses, salt, bone meal, calcium carbonate, ground oats.
H. K. Webster Co. Lawrence, Mass.								
Blue Seal All-Mash Growing Ration	G. F.	14.50 16.11	4.00 4.67	60.00 62.34	7.06 7.06	9.82 9.82	5.00 4.72	Coarse ground no. 2 yellow corn, ground barley, fine ground heavy oats, pure wheat bran, wheat flour middlings, high grade meat scraps, 55% cod fish meal, dried skim milk, alfalfa leaf meal, corn gluten meal, cane molasses, calcium carbonate, salt, cod liver oil.
Blue Seal Breeders' Mash	G. F.	20.00 20.27	4.00 4.90	52.00 54.87	10.37 10.37	9.59 9.59	6.00 4.81	Dehydrated alfalfa leaf meal dried skim milk with lactoflavin supplement, pure natural cod liver oil, wheat germ oil, high grade meat and liver meals, 55% fish meal, corn gluten meal, cane molasses, no. 2 yellow corn meal, pure wheat bran, wheat flour middlings, fine ground heavy oats, ground rolled oats, ground barley, salt, calcium carbonate.
Blue Seal Egg Mash	G. F.	19.00 19.96	4.50 4.82	54.00 55.99	10.29 10.29	8.94 8.94	6.00 4.86	No. 2 yellow corn meal, fine ground heavy oats, pure wheat bran, wheat flour middlings, high grade meat scraps, 55% fish meal, dried skim milk, alfalfa leaf meal, cane molasses, corn gluten meal, calcium carbonate, salt, cod liver oil.

Pounds in 100 lbs. of Feeding Stuff

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuff					Certified by manufacturer to contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	Crude Fiber
Blue Seal Hom-Mix 24% Dairy Ration	G. 24.00	4.50	53.00	...	...	9.00
	F. 25.26	4.14	54.67	7.06	8.87	8.99
Blue Seal Laying Mash	G. 20.00	4.00	54.00	...	...	6.00
	F. 20.00	4.37	56.63	9.01	9.99	4.88
Blue Seal Special 20% Dairy Ration	G. 20.00	4.50	55.00	...	...	10.00
	F. 21.40	4.53	57.40	7.52	9.15	9.55
C. H. Williamson & Co. St. Louis, Mo. Wheat Bran with Ground Screen- ings	G. 14.50	3.50	61.00	...	...	11.00
	F. 16.29	3.93	62.24	7.64	9.90	....
Wilson & Co. Chicago, Ill. Red W Brand Meat and Bone Scrap	G. 50.00	6.00	.....	...	...	3.00
	F. 52.58	9.89	.....	31.48	4.66	....
Register Brand 45% Protein Meat and Bone Scrap	G. 45.00	8.00	.....	...	...	....
	F. 46.32	10.93	.....	35.50	4.86	....

Choice cottonseed meal, soybean oil meal, corn oil meal, malt sprouts, corn gluten meal, oat feed, wheat bran, hominy feed, peanut skins, germs and meal, linseed oil meal, dried brewers' grains, cane molasses, B. S. mineral mixture.

No. 2 yellow corn meal, pure wheat bran, fine ground heavy oats, high grade meat scraps, corn gluten meal, wheat flour middlings, ground barley, ground fancy wheat, cane molasses, alfalfa leaf meal, dried skim milk, 55% cod fish meal, salt, calcium carbonate, cod liver oil.

Choice cottonseed meal, soybean oil meal, corn oil meal, malt sprouts, gluten feed, oat feed, wheat bran, hominy feed, peanut skins, germs and meal, linseed oil meal, dried brewers' grains, corn distillers' grains, cane molasses, B. S. mineral mixture.

Wheat bran and wheat screenings not exceeding mill run.

~~PAS~~

~~630.72~~

~~N532~~

~~no. 306-326~~

